



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Agency Interest No. 26336
Activity No.: PER20020001

Mr. Carol Triebel
Site Manager
Shell Norco Chemical Plant - East Site
Shell Chemical LP
P. O. Box 10
Norco, Louisiana 70079

RE: Part 70 Operating Permit Renewal, Shared Sources, Shell Norco Chemical Plant – East Site,
Shell Chemical LP Norco, St. Charles Parish, Louisiana

Dear Ms. Triebel:

This is to inform you that the permit renewal for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the application submitted and the approval in no way relieves the applicant of the obligation to comply with all the applicable requirements.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2011 unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and date of issue cited below and the AI No. 3165 should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2006

Permit No.: 2510-V2

Sincerely,

Chuck Carr Brown, Ph.D.

Assistant Secretary

SGQ

c: EPA Region VI

ENVIRONMENTAL SERVICES

: PO BOX 4313, BATON ROUGE, LA 70821-4313

P:225-219-3181 F:225-219-3309

WWW.DEQ.LOUISIANA.GOV

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
SHELL CHEMICAL LP/SHELL NORCO CHEMICAL PLANT – EAST SITE SHARED SOURCES
PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL

The LDEQ, Office of Environmental Services, is accepting written comments on proposed Part 70 air operating permit renewal for Shell Chemical LP , P. O. Box 10, Norco, Louisiana 70079 for the Shell Norco Chemical Plant - East Site. The facility is located at 15536 River Road, Norco, St. Charles Parish.

Shell Norco Chemical Plant – East Site is operated by the Shell Chemical LP (Shell) and owned by SCOGI Holdings LLC. The facility is currently operating under a consolidated Part 70 Permit No. 2510-V1 dated July 21, 2000 and includes equipment and emissions from Shell Chemical Plant and Shell Norco Refining Company. Shell has gone through some changes at the management level and has also sold some of the units.

Shell requested to break the existing Shared Sources Part 70 Permit No. 2510-V1, which includes emission sources that are owned and operated by Motiva Norco Refinery. This Part 70 proposed permit will deal with the sources which are operated by Shell Norco Chemical Plant – East Site..

Permitted emissions from the Shell Norco Chemical Plant – East Site based on the changes due inclusion, deletion of emissions in order to split the existing Part 70 Permit No. 2510-V1 in tons per year are as follows:

Pollutant	Before	After	Change*
PM ₁₀	4.03	5.71	+ 1.68
SO ₂	15.13	56.30	+ 41.17
NO _x	175.53	37.23	- 138.30
CO	12.82	137.80	+ 124.98
VOC	587.73	259.75	- 327.98

* Changes in emissions are due to ownership changes, restructuring, and reconciliation based on updated EPA emission factors and updated operating data

Written comments, written requests for a public hearing, or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Thursday, June 8, 2006.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed permit, and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). Additional copies may be reviewed at the St Charles Parish Library - East Regional Branch located at 100 River Oaks Drive, Destrehan LA 70047.

Inquiries or requests for additional information regarding this permit action should be directed to Mr. Syed

Quadri, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3123.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at maillistrequest@ldeq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.state.la.us/news/PubNotice/ and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabcid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.state.la.us/ldbc/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 26336 , Permit Number 2510-V2 , and Activity Number PER20020001 .

Publication Date: Thursday, May 4, 2006

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

SHARED SOURCES, NORCO CHEMICAL PLANT-EAST SITE

AGENCY INTEREST NO. 26336

SHELL CHEMICAL LP

NORCO, ST. CHARLES PARISH, LOUISIANA

I. BACKGROUND

The Shell Norco Chemical Plant – East Site is operated by the Shell Chemical LP (Shell) and owned by SCOGI Louisiana Holdings LLC. The facility is located at 15536 River Road in Norco, St. Charles Parish, Louisiana. The facility is currently operating under a consolidated Part 70 Operating Permit No. 2510-V1 dated July 21, 2000 and includes equipment and emissions from the Shell Chemical Plant and Shell Norco Refining Company. Shell has gone through some changes at the management level and has also sold some of the units. This permit only deals with the Shared Sources from the Shell Norco Chemical Plant – East Site.

II. ORIGIN

A permit application and Emission Inventory Questionnaire (EIQ) received in August 2002. An updated permit application and EIQ were submitted dated November 17, 2004 to reflect the changes due to ownership changes and restructuring of the units and equipments and for a renewal permit. Additional information dated July 5, September 28, and October 20 2005 was also received.

III. DESCRIPTION

As result of the above ownership changes, Shell is proposing to break the existing Shared Sources Part 70 Operating Permit No. 2510-V1, which includes emission sources that are owned and operated by Motiva Norco Refinery as well as emission sources that are owned and operated by Shell. Therefore, in addition to the break up of the current Shared Sources permit, Shell is proposing to restructure the pending Utilities East Site Part 70 permit by moving two storage tanks, Emission Points 1100-95 and 1108-97; a wastewater emission source, Emission Point 3208-95; a fugitive component source, Emission Point 3014-95; and several controlled vents into this Shared Source permit. Shell is also proposing to incorporate portions of the fugitive components from the Dimersol Unit, Emission Point 1-93, into the existing fugitive emissions, Emission Point 5031-01 of Share Sources permit.

Shell requests other changes as follows: Delete Tank XW-401, Emission Point 1031-95; delete Tank FE-430, a grandfathered source; transfer the GO-1 Flare FE-602, Emission Point 1-90 to the Olefins Part 70 Permit No. 2520-V2; update the emission rates and factors based on updated EPA factors; and reconciliation due to emission source data and/or calculation methodology. Also to include tank turnaround emissions (Startup/Shutdown) in the permit along with the emissions from internal combustion engines (ICEs) used on site for maintenance activities.

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~~NORCO, ST. CHARLES PARISH, LOUISIANA~~

Permitted emissions changes due to the changes to the Shared Sources in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	4.03	5.71	+ 1.68
SO ₂	15.13	56.30	+ 41.17
NO _x	175.53	37.23	- 138.30
CO	12.82	137.80	+ 124.98
VOC	587.73	259.75	- 327.98

Increases in emissions are due to ownership changes, restructuring, and reconciliation based on updated EPA emission factors and updated operating data.

Prevention of Significant Deterioration (PSD) review is not required, as the emissions increases are not a direct result of any modification.

IV. TYPE OF REVIEW

This permit was reviewed for compliance with Louisiana Air Quality Regulations and New Source Performance Standards (NSPS) and NESHAP. Prevention of Significant Deterioration does not apply.

This facility is part of a major source of toxic air pollutants. Shell's toxic compliance plan was approved January 8, 1996.

V. CREDIBLE EVIDENCE

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit

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shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. PUBLIC NOTICE

A notice requesting comments on the permit was published in The Advocate, Baton Rouge, Louisiana, and The St. Charles-Herald, St. Charles Parish, Louisiana, on *****, **, 2006, and the mail out was done on ****, **, 2006. All comments shall be considered before any permit action is taken. The proposed permit was also submitted to US EPA Region VI on ****, **, 2006.

VII. EFFECTS ON AMBIENT AIR

Dispersion Model(s) Used: None

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Air Quality Standard (NAAQS)
NA			

VIII. GENERAL CONDITION XVII ACTIVITIES

Activity	Frequency	NO _x *	CO*	SO ₂ *	PM ₁₀ *	VOC*
Alky Startup/Shutdown	Once/yr	0.03	0.18	-	0.01	0.23
MTBE Startup/Shutdown/Catalyst change	Once/yr	0.01	0.04	-	<0.01	0.05

* Emissions controlled by West Ops Elevated Flare, Emission Point 5-84

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IX. INSIGNIFICANT ACTIVITIES

ID No.:	Description	Citation
Shared Sources - East Site		
684	CUS Emergency Power Generator	LAC 33:III.501.B.5.A.1
685	P-1397 River Water Pump Berth 3	LAC 33:III.501.B.5.A.1
686	F-1414 Fire Water Pump Walkers Pond	LAC 33:III.501.B.5.A.1
687	P-1719 Fire Water Pump Walkers Pond	LAC 33:III.501.B.5.A.1
688	P-563 Fire Water Pump Berth 3	LAC 33:III.501.B.5.A.1
689	Temporary Emergency Generator – 450 kW	LAC 33:III.501.B.5.A.1
690	P-2786 Fire Water Pump North Property	LAC 33:III.501.B.5.A.1
691	P-2787 Fire Water Pump North Property	LAC 33:III.501.B.5.A.1
655	P-563 Diesel Storage Tank <250 gal and <3.5 psia	LAC 33:III.501.B.5.A.2
656	P-1937 Diesel Storage Tank <10000 and 0.5 psia	LAC 33:III.501.B.5.A.3
7	Storage of Maintenance Related Materials	LAC 33:III.501.B.5.A.3
344	N-88381 Corrosion Inhibitor Tank	LAC 33:III.501.B.5.A.3
598	Nitrogen Blanket TBC Storage Tank	LAC 33:III.501.B.5.A.3
327	K-485 Boiler Water Treatment Tank	LAC 33:III.501.B.5.A.3
333	N-88382 Water Treatment Tank	LAC 33:III.501.B.5.A.3
334	N-88382 Boiler Water Treatment Tank	LAC 33:III.501.B.5.A.3
343	L-435 Calcium Salicylate Tank	LAC 33:III.501.B.5.A.3
8	Sampling Operations	LAC 33:III.501.B.5.A.9
10	On Line Analyzers	LAC 33:III.501.B.5.A.9
348	TK-106 Soap Tank	LAC 33:III.501.B.5.A.10
346	TK-105 Soap Tank	LAC 33:III.501.B.5.A.10
347	TK-104 Soap Tank	LAC 33:III.501.B.5.A.10
345	TK-101 Soap Tank	LAC 33:III.501.B.5.A.10
324	C12446 Boiler Water Treatment Tank	LAC 33:III.501.B.5.A.10

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ID No.:	Description	Citation
Shared Sources - East Site (Contd.)		
332	M-441 Boiler Water Treatment Tank	LAC 33:III.501.B.5.A.10
682	Temporary CWT for CUS Systems	LAC 33:III.501.B.5.A.12

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III Chapter												29*	51*	52	56	59
		5	9	11	13	15	2103	2104*	2111	2113	2115	2121	22					
Facility Wide		1	1	1	1				1					1	1	1	1	1
ARE003	3208-95, Shared Wastewater System																	
EQT002	1020, D-423 FR Tank							2										
EQT003	1100-95, K-484 FR Tank																	
EQT004	1108-97, L-438 FR Tank																	
EQT005	1224-95, XC-7005 IFR Tank							1										
EQT006	1248-95, XC-7006 EFR Tank							1										
EQT007	1261-95, D-418 IFR Tank								1									
EQT008	1262-95, D-419 IFR Tank								1									
EQT009	1263-95, XC-429 IFR Tank								2									
EQT010	3-84, Utilities East Flare (FE-501)								1									
EQT011	5-84, West OPS Elevated Flare (FE-601)								1									
EQT012	CNTL VENT 54 UE - FSEG Vent													1				
EQT013	CNTL VENT 55 UE - Venting from Flash Vessels Upstream of XC70005/7006														1			

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**SHELL CHEMICAL LP
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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33.III.Chapter											
		5	9	11	13	15	2103	2104*	2111	2113	2115	2121	22					
EQT014	CNTLVENT 664 UE - FGBD Analyzer																	
EQT015	CNTLVNT514S-411 Routine Venting																	
EQT016	CNTLVNT515S-417 Routine Venting																	
EQT017	CNTLVNT97S-412 Routine Venting																	
EQT018	Utilities Fuel Gas Blend Drum																	
EQT019	XC-409 Tank																	
EQT020	XC-430 Tank																	
EQT025	5037-05, Shared Sources ICES																	
FUG001	3014-95, Fugitive Emissions - CUS																	
FUG002	5031-01, SCC-PA Area Fugitives																	
GRP006	Shared Sources	1	1	1	2									1	1	1	1	1

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III:Chapter																	
		5	9	11	13	15	2103	2104*	2111	2113	2115	2121	22	2301	29*	51*	52	56	59
* The regulations indicated above are State Only regulations.																			
▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.																			

KEY TO MATRIX

- 1 - The regulations have applicable requirements which apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source.
Blank – The regulations clearly do not apply to this type of emission source.

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X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		A	K	J	Ka	Kb	VV	3Ns	3Qs	A	J	M	FF	A	F	G	CC	YY	5Gs	52	64	68	82			
Facility Wide		1								1	1	1							1		1	1	1			
ARE003	3208-95, Shared Wastewater System								1			1														
EQT002	1020, D-423 FR Tank			2																						
EQT003	1100-95, K-484 FR Tank																									
EQT004	1108-97, L-438 FR Tank																									
EQT005	1224-95, XC-7005 IFR Tank									1		1														
EQT006	1248-95, XC-7006 EFR Tank									1		1														
EQT007	1261-95, D-418 IFR Tank									1		1														
EQT008	1262-95, D-419 IFR Tank									1		1														
EQT009	1263-95, XC-429 IFR Tank									1																
EQT010	3-84, Utilities East Flare (FE-501)																		1		1					
EQT011	5-84, West OPS Elevated Flare (FE-601)																		1		1					
EQT012	CNTL VENT 54 UE - FSEG Vent																	1								

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NORCO, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHAP						40 CFR						
		A	K	J	Ka	Kb	VV	3Ns	3Qs	A	J	M	FF	A	F	G	CC	YY	SGs	52	64	68	82			
EQT013	CNTL VENT 55 UE – Venting from Vessels Upstream of XC7005/7006 System							1			1															
EQT014	CNTL VENT 664 UE – FGBD Analyzer																									
EQT015	CNTL VNT514S-411 Routine Venting			1														1								
EQT016	CNTL VNT515S-417 Routine Venting			1														1								
EQT017	CNTL VNT97S-412 Routine Venting			1														1								
EQT018	Utilities Fuel Gas Blend Drum			1																						
EQT019	XC-409 Tank				1													1								
EQT020	XC-430 Tank				1													1								
EQT025	5037-05, Shared Sources ICES																									
FUG001	3014-95, Fugitive Emissions – CUS																	1								
FUG002	5031-01, SCC-PA Area Fugitives																	1								

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NORCO, ST. CHARLES PARISH, LOUISIANA

X. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63 NESHPAP						40 CFR						
		A	K	J	Ka	Kb	VV	3Ns	3Qs	A	J	M	FF	A	F	G	CC	YY	5Gs	S2	64	68	82			
GRP006	Shared Sources	1								1	1	1	1						2		1	1				
KEY TO MATRIX																										
1	The regulations have applicable requirements which apply to this particular emission source.																									
40	The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.																									
2	The regulations have applicable requirements which apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criteria, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.																									
3	The regulations apply to this general type of emission source (i.e. vents, furnaces, and fugitives) but do not apply to this particular emission source. Blank – The regulations clearly do not apply to this type of emission source.																									

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XI. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Status	Citation	Explanation
GRP6 Facility Wide	NESHAP, Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants – Site Remediation	Exempt	40 CFR 63.7881(c)	Shall maintain records to show HAPs are less than 1 MG/y from remediation
EQT2 1020, D-423 FR Tank	Louisiana Administrative Code, Chapter 21 – Storage of Volatile Organic Compounds NSPS, Subpart K – Petroleum Liquid Storage Vessels	Does not apply	LAC 33:III.2103.A 40 CFR 60.113(d)	Total vapor pressure less than 1.5 psia Total vapor pressure less than 1 psia
EQT009 1263-95, XC-429 IFR Tank	Louisiana Administrative Code, Chapter 21 – Storage of Volatile Organic Compounds	Does not apply	LAC 33:III.2103.A 40 CFR 60.113(d)	Total vapor pressure less than 1.5 psia Total vapor pressure less than 1 psia
EQT10 and EQT11	LAC 33:III.Chapter 15 - Emission Standards for Sulfur Dioxide	Exempt	LAC 33:III.1503.C LAC 33:III.1511	Less than 250 tons per year
Loading Stations 1, 3, and 5	None	None		These emissions are incorporated along with the Fugitive Emissions, FUG001
The above table provides explanation for both the exemption status or non-applicability of a source cited by 2 or 3 in the matrix presented in Section X of this permit				

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
 1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(ii)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
 1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
[Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year.
[LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an emergency occurred and the cause was identified; 2) the permitted facility was being

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operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
 - 1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 - 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 - 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act; .
 - 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 - 5. changes in emissions would not qualify as a significant modification; and
 - 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Surveillance Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
 - 1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 - 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
 - 3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly

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deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:

- a. Report by June 30 to cover January through March
 - b. Report by September 30 to cover April through June
 - c. Report by December 31 to cover July through September
 - d. Report by March 31 to cover October through December
4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

- 1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
- 2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
- 3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
- 4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
- 5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
- 6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air

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conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

LOUISIANA AIR EMISSIONS PERMIT GENERAL CONDITIONS

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The synopsis is based on the application and Emission Inventory Questionnaire (EIQ) dated November 17, 2004; and additional information dated July 5, September 28, and October 20, 2005.
- IV. This permit shall become invalid, for the sources not constructed, if:
 - A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.

The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.

This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.

LOUISIANA AIR EMISSIONS PERMIT GENERAL CONDITIONS

- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.
- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Surveillance Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Surveillance Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.

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- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;
 3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and

LOUISIANA AIR EMISSIONS PERMIT GENERAL CONDITIONS

- D. ~~Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.~~
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.
- XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:
1. Generally be less than 5 TPY
 2. Be less than the minimum emission rate (MER)
 3. Be scheduled daily, weekly, monthly, etc., or
 4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]
- These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.
- XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as

LOUISIANA AIR EMISSIONS PERMIT GENERAL CONDITIONS

specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

- XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 26336 Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER2002001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

<u>General Information</u>					
Also Known As:	ID	Name	User Group	Start Date	
	LAO4840	Shell Chemical Co Norco East Site	Air Permitting	08-05-2002	
	2520-0079	ADV#	Asbestos	01-22-2003	
	2520-0079	Shell Chemical LP - Norco Chemical Plant - East Site	CDS Number	08-12-1996	
	13-1299990	Shell Chemical LP - Norco Chemical Plant - East Site	Emission Inventory	03-03-2004	
	LAR000011635	Shell Norco Chemical Plant East Site	Federal Tax ID	11-21-1999	
	LA0109606	WPC File Number	Hazardous Waste Notification	03-14-1996	
		SCOGI LA Holdings LLC	LPDES Permit #	06-25-2003	
	LA-2176-L02	Radioactive Material License	Multimedia	08-12-1996	
	10367	X-Ray Registration Number	Radiation License Number	09-20-2000	
	G-089-82206	Site Id #	Radiation X-ray Registration Number	01-09-2000	
	38783	Shell Chemical LP - Shell Norco Chemical Plant	Solid Waste Facility No.	11-21-1999	
	52275	Shell Oil Co	TEMPO Merge	05-17-2001	
	2520-0079	Toxic Emissions Data Inventory #	TEMPO Merge	02-21-2001	
	70079SHLL1205R	TRI #	Toxic Emissions Data Inventory #	01-01-1998	
			Toxic Release Inventory	07-19-2004	
Physical Location:	15536 River Rd Norco, LA 70079		Main FAX:	5044656360	
Mailing Address:	PO Box 10 Norco, LA 700790010		Main Phone:	5044657222	
Location of Front Gate:	30° 0' 4" 0 hundredths latitude, 90° 24' 25" 0 hundredths longitude, Coordinate Method: Interpolation - Map, Coordinate Datum: NAD27				
Related People:	Name	Mailing Address	Phone (Type)	Relationship	
	J. R. Armstrong	PO Box 10 Norco, LA 700790010	5044657220 (WP)	Asbestos Contact for	
	Nora Ashby	PO Box 10 Norco, LA 700790010	5044656594 (WP)	Radiation Contact for	
	Oliver Boyd	PO Box 10 Norco, LA 700790010	5044656315 (WP)	Water Permit Contact For	
	Oliver Boyd	PO Box 10 Norco, LA 700790010	5044656315 (WP)	Water Billing Party for	
	Fred Goodson	PO Box 10 Norco, LA 700790010	5044657609 (WP)	Hazardous Waste Permit Contact For	
	Fred Goodson	PO Box 10 Norco, LA 700790010	5044657609 (WP)	Haz. Waste Billing Party for	
	Fred Goodson	PO Box 10 Norco, LA 700790010	5044657609 (WP)	Solid Waste Billing Party for	
	A. W. Pearce	PO Box 10 Norco, LA 700790010	5044657668 (WP)	Water Permit Contact For	
	A. W. Pearce	PO Box 10 Norco, LA 700790010	5044656729 (WF)	Water Permit Contact For	
	A. W. Pearce	PO Box 10 Norco, LA 700790010	5044657668 (WP)	Accident Prevention Contact for	
	A. W. Pearce	PO Box 10 Norco, LA 700790010	5044656729 (WF)	Accident Prevention Contact for	
	Suzanne Poslilewaite	PO Box 10 Norco, LA 700790010	5044657668 (WP)	Accident Prevention Contact for	

General Information

AI ID: 26336 Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER2002001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

Related People:	Name	Mailing Address	Phone (Type)	Relationship
	Suzanne Postlethwaite	PO Box 10 Norco, LA 700790010	5044657668 (WP)	Accident Prevention Billing Party for
	Suzanne Postlethwaite	PO Box 10 Norco, LA 700790010	5044656729 (WF)	Accident Prevention Contact for
	Suzanne Postlethwaite	PO Box 10 Norco, LA 700790010	5044656729 (WF)	Accident Prevention Billing Party for
	Glenda Simon	PO Box 10 Norco, LA 700790010	5044657690 (WP)	Air Billing Contact for
	Carol Triebel		5044657222 (WP)	Katrina Response Contact for
	Joe Tudor	PO Box 10 Norco, LA 700790010	5044656350 (WP)	Radiation Safety Officer for
	Joe Tudor	PO Box 10 Norco, LA 700790010	5044657117 (WF)	Radiation Safety Officer for
	Joe Tudor	PO Box 10 Norco, LA 700790010	5043907235 (CP)	Radiation Safety Officer for
	Joe Tudor	PO Box 10 Norco, LA 700790010	JOE.TUDOR@SHEI	Radiation Safety Officer for
Related Organizations:	Name	Address	Phone (Type)	Relationship
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044657220 (WP)	Owns
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044656360 (WF)	Owns
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044657220 (WP)	Operates
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044656360 (WF)	Operates
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044657220 (WP)	Air Billing Party for
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044656360 (WF)	Air Billing Party for
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044657220 (WP)	Haz. Waste Billing Party for
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044656360 (WF)	Haz. Waste Billing Party for
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044657220 (WP)	Radiation Registration Billing Party for
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044656360 (WF)	Radiation Registration Billing Party for
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044657220 (WP)	Radiation License Billing Party for
	Shell Chemical LP	PO Box 10 Norco, LA 700790010	5044656360 (WF)	Radiation License Billing Party for
SIC Codes:	2911. Petroleum refining			

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMP0 database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
ARE003	3208-95 - Shared Wastewater System Emissions	95313 gallons	33000 bbl/yr	33000 bbl/yr		8760 hr/yr (All Year)
EQT002	1020-95 - D-423 FR Tank	27071 gallons	33330 bbl/yr	33330 bbl/yr		8760 hr/yr (All Year)
EQT003	1100-95 - K-484 FR Tank	8812 gallons	3180 bbl/yr	3180 bbl/yr		8760 hr/yr (All Year)
EQT004	1108-97 - L-438 FR Tank	55489 bbl	13.34 MM bbl/yr	13.34 MM bbl/yr		8760 hr/yr (All Year)
EQT005	1224-95 - XC-7005 IFR Tank	60802 bbl	14.5 MM bbl/yr	14.5 MM bbl/yr		8760 hr/yr (All Year)
EQT006	1248-95 - XC-7006 EFR Tank	215904 gallons	3.03 MM bbl/yr	3.03 MM bbl/yr		8760 hr/yr (All Year)
EQT007	1261-95 - D-418 IFR Tank	209427 gallons	3.03 MM bbl/yr	3.03 MM bbl/yr		8760 hr/yr (All Year)
EQT008	1262-95 - D-419 IFR Tank	80568 bbl	29.99 MM bbl/yr	29.99 MM bbl/yr		8760 hr/yr (All Year)
EQT009	1263-95 - XC-429 IFR Tank		80000 lb/hr	4175 lb/hr		8760 hr/yr (All Year)
EQT010	3-84 - UTILITIES EAST FLARE (FE-501)		100000 lb/hr	1789 lb/hr		8760 hr/yr (All Year)
EQT011	5-84 - WEST OPS ELEVATED FLARE (FE-601)					8760 hr/yr (All Year)
EQT012	CNTLVENT 54 UE - Fuel System Excess Gas Venting					8760 hr/yr (All Year)
EQT013	CNTLVENT 55 UE - Venting from Flash vessels upstream of XC7005/T7006					8760 hr/yr (All Year)
EQT014	CNTLVENT 664 UE - AE2074 (FGBD SG Analyzer) Vent to Flare					8760 hr/yr (All Year)
EQT015	CNTLVNT514S-411 - S-411 Routine venting					8760 hr/yr (All Year)
EQT016	CNTLVNT515S-417 - S-417 Routine venting					8760 hr/yr (All Year)
EQT017	CNTLVNT97S-412 - S-412 Routine venting					8760 hr/yr (All Year)
EQT018	Fuel Gas Blend Drum - Utilities Fuel Gas Blend Drum					8760 hr/yr (All Year)
EQT019	XC-409 - Tank XC-409 and vent, in Sour water service	3.38 million gallons				8760 hr/yr (All Year)
EQT020	XC-430 - Tank XC-430 and vent, in either Ballast or Sour water service	3.38 million gallons				8760 hr/yr (All Year)
EQT025	5037-95 - Shared Sources ICES					8760 hr/yr (All Year)
FUG001	3014-95 - FUGITIVE EMISSIONS - CUS					8760 hr/yr (All Year)
FUG002	5031-01 - SCC-PA Area Fugitives					8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP006	Shared Sources	ARE3 3208-95 - Shared Wastewater System Emissions
GRP006	Shared Sources	EQT2 1020-95 - D-423 FR Tank
GRP006	Shared Sources	EQT3 1100-95 - K-484 FR Tank
GRP006	Shared Sources	EQT4 1108-97 - L-438 FR Tank
GRP006	Shared Sources	EQT5 1224-95 - XC-7005 IFR Tank
GRP006	Shared Sources	EQT6 1248-95 - XC-7006 EFR Tank
GRP006	Shared Sources	EQT7 1261-95 - D-418 IFR Tank
GRP006	Shared Sources	EQT8 1262-95 - D-419 IFR Tank
GRP006	Shared Sources	EQT9 1263-95 - XC-429 IFR Tank

INVENTORIES

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP006	Shared Sources	EQT10 3-84 - UTILITIES EAST FLARE (FE-501)
GRP006	Shared Sources	EQT11 5-84 - WEST OPS ELEVATED FLARE (FE-60)
GRP006	Shared Sources	EQT12 CNTLVENT 54 UE - Fuel System Excess Gas Venting
GRP006	Shared Sources	EQT13 CNTLVENT 55 UE - Venting from Flash vessels upstream of XC7005/7006
GRP006	Shared Sources	EQT14 CNTLVENT 664 UE - AE2074 /FGBD SG Analyzer Vent to Flare
GRP006	Shared Sources	EQT15 CNTLVNT514S-411 - S-411 Routine venting
GRP006	Shared Sources	EQT16 CNTLVNT515S-417 - S-417 Routine venting
GRP006	Shared Sources	EQT17 CNTLVNT97S-412 - S-412 Routine venting
GRP006	Shared Sources	EQT18 Fuel Gas Blend Drum - Utilities Fuel Gas Blend Drum
GRP006	Shared Sources	EQT19 XC-409 - Tank XC409 and vent, in Sour water service
GRP006	Shared Sources	EQT20 XC-430 - Tank XC430 and vent, in either Ballast or Sour water service
GRP006	Shared Sources	EQT25 5037-95, Shared Sources ICES
GRP006	Shared Sources	FUG1 3014-95 - FUGITIVE EMISSIONS - CUS
GRP006	Shared Sources	FUG2 5031-01 - SCC-PA Area Fugitives

Relationships:

Subject Item	Relationship	Subject Item
EQT12 CNTLVENT 54 UE - Fuel System Excess Gas Venting	Vents to	EQT10 3-84 - UTILITIES EAST FLARE (FE-501)
EQT13 CNTLVENT 55 UE - Venting from Flash vessels upstream of XC7005/7006	Vents to	EQT10 3-84 - UTILITIES EAST FLARE (FE-501)
EQT14 CNTLVENT 664 UE - AE2074 /FGBD SG Analyzer Vent to Flare	Vents to	EQT10 3-84 - UTILITIES EAST FLARE (FE-501)
EQT19 XC-409 - Tank XC409 and vent, in Sour water service	Vents to	EQT10 3-84 - UTILITIES EAST FLARE (FE-501)
EQT20 XC-430 - Tank XC430 and vent, in either Ballast or Sour water service	Vents to	EQT10 3-84 - UTILITIES EAST FLARE (FE-501)

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT002	1020-95 - D-423 FR Tank		26		24	
EQT003	1100-95 - K-484 FR Tank		16		18	
EQT004	1108-97 - L-438 FR Tank		10		15	
EQT005	1224-95 - XC-7005 IFR Tank		100		40	
EQT006	1248-95 - XC-7006 EFR Tank		100	0	40	
EQT007	1261-95 - D-418 IFR Tank		35		30	
EQT008	1262-95 - D-419 IFR Tank		35		29.1	
EQT009	1263-95 - XC-429 IFR Tank		120		40	
EQT010	3-84 - UTILITIES EAST FLARE (FE-501)	65.62	25276.8	6.47	208	1832
EQT011	5-84 - WEST OPS ELEVATED FLARE (FE-601)	65.62	12205.3	3.1	300	1832

INVENTORIES

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP006	1	MM Lb/Yr	0635 - Olefins and Aromatics N.E.C. (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER2002001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC			
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/yr	Max lb/yr	Tons/Year	
ARE 003 3208-95													3.003	3.603	15.78	
EQT 002 1020-95													0.014	0.014	0.061	
EQT 005 1224-95													0.978	0.978	4.284	
EQT 006 1248-95													0.784	0.784	3.435	
EQT 007 1261-95													0.38	0.38	1.666	
EQT 008 1262-95													0.38	0.38	1.666	
EQT 009 1263-95													0.833	0.833	3.647	
EQT 010 3-84	0.6	11.42	2.61	12.06	231.12	52.83	3.17	60.69	13.87	17.23	330.22	75.48	16.69	319.84	73.11	
EQT 011 5-84	0.47	26.12	2.05	0.28	15.53	1.22	2.48	138.77	10.87	13.51	755.1	59.17	1.4	916.99	71.85	
EQT 025 5307-05							1.05		2.25		12.49			3.15		0.66
FUG 001 3014-95											0	0	0	4.671	4.671	20.457
FUG 002 5031-01													14.415	14.415	63.136	

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 5.71 tons/yr

SO2: 56.30 tons/yr

NOx: 37.23 tons/yr

CO: 137.80 tons/yr

VOC: 259.75 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	1,3-Butadiene			1-Methylnaphthalene			2,2,4-Trimethylpentane			2-Methylnaphthalene			Acetonitrile		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 003 3208-95	0.013	0.013	0.056				0.007	0.007	0.031				0.001	0.001	0.001
EQT 002 1020-95							0.001	0.001	0.001						
EQT 003 1100-95															
EQT 004 1108-97															
EQT 005 1224-95	0.142	0.142	0.620				0.035	0.035	0.157						
EQT 006 1248-95	0.438	0.438	1.919				0.001	0.001	0.006				0.001	0.001	0.001
EQT 007 1251-95	0.213	0.213	0.931				0.001	0.001	0.003				0.001	0.001	0.001
EQT 008 1262-95	0.213	0.213	0.931				0.001	0.001	0.003				0.001	0.001	0.001
EQT 009 1263-95	0.042	0.042	0.182				0.156	0.156	0.682						
EQT 010 3-84	0.544	10.424	2.383	0.001	0.001	0.005	0.088	0.020	0.001	0.001	0.001	0.001	0.001	0.002	0.001
EQT 011 5-84	0.417	23.3	1.826												
FUG 001 3014-95	0.031	0.031	0.136	0.002	0.006	0.0048	0.0048	0.021	0.002	0.007	0.007	0.001	0.001	0.001	0.001
FUG 002 5031-01	2.306	2.306	10.100	0.005	0.005	0.023	0.002	0.002	0.009	0.007	0.007	0.031			

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	Ammonia			Benzene			Biphenyl			Cresol			Cumene		
	Avg lb/hr	Max lb/hr	Tons/Year												
ARE 003 3208-95	0.07	0.07	0.308	0.088	0.088	0.387							0.02	0.02	0.008
EQT 002 1020-95				0	0	0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
EQT 003 1100-95															
EQT 004 1108-97															
EQT 005 1224-95	0.065	0.065	0.283	0.260	0.260	1.140							0.001	0.001	0.003
EQT 006 1248-95	0.0363	0.0363	0.159	0.148	0.148	0.648							0.001	0.001	0.001
EQT 007 1261-95	0.018	0.018	0.077	0.072	0.072	0.314							0.001	0.001	0.001
EQT 008 1262-95	0.018	0.018	0.077	0.072	0.072	0.314							0.001	0.001	0.001
EQT 009 1263-95	0.015	0.015	0.067	0.058	0.058	0.254							0.001	0.001	0.004
EQT 010 3-64	0	0	0	0.616	11.798	2.697	0.001	0.001	0.001	0.001	0.001	0.001	0.006	0.006	0.001
EQT 011 5-64	0	0	0	0.007	0.403	0.032									
FUG 001 3014-95	0.007	0.007	0.029	0.057	0.057	0.248	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.004
FUG 002 S031-01	0.001	0.001	0.553	0.553	2.42	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

All phases

Diethanolamine		Ethyl benzene		Hydrochloric acid		Hydrogen sulfide		Methane	
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 003 3208-95			0.02	0.02	0.087	0.006	0.026	0.101	0.443
EQT 002 1020-95			0.001	0.001	0.001				
EQT 003 1100-95									
EQT 004 1108-97									
EQT 005 1224-95	0.014	0.063					0.189	0.189	0.828
EQT 006 1248-95			0.004	0.004	0.017		0.108	0.108	0.474
EQT 007 1261-95			0.002	0.002	0.008		0.052	0.052	0.230
EQT 008 1282-95			0.002	0.002	0.008		0.052	0.052	0.230
EQT 009 1283-95			0.016	0.016	0.070		0.045	0.045	0.197
EQT 010 3-84			0.005	0.091	0.021				0.001
EQT 011 5-84	0.001	0.001					0.012	0.012	0.001
FUG 001 3014-95			0.011	0.048	0.292	1.280	0.012	0.053	0.001
FUG 002 5031-01			0.066	0.066	0.290		0.001	0.001	0.009

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 263336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PERB200020001

Deposit Month = 05/10/16
Deposit Amount = 1000000

Permit Number: 2310-V2

All phases

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	Sulfuric acid			Toluene			Xylene (mixed isomers)			n-Hexane		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
ARE 003 3208-95	0.233	0.233	1.019	0.095	0.095	0.415	0.07	0.07	0.307	0.013	0.013	0.057
EQT 002 1020-95				0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.003
EQT 003 1108-97	0.001	0.001	0.001									
EQT 004 1108-97												
EQT 005 1224-95				0.127	0.127	0.557	0.041	0.041	0.177	0.087	0.087	0.382
EQT 006 1248-95				0.053	0.053	0.231	0.015	0.015	0.066	0.03	0.03	0.132
EQT 007 1261-95				0.026	0.026	0.112	0.007	0.007	0.032	0.015	0.015	0.064
EQT 008 1262-95				0.026	0.026	0.112	0.007	0.007	0.032	0.015	0.015	0.064
EQT 009 1263-95				0.066	0.066	0.290	0.043	0.043	0.188	0.150	0.150	0.655
EQT 010 3-84				0.065	1.250	0.286	0.019	0.358	0.082	0.478	9.167	2.095
EQT 011 5-84				0.001	0.001	0.001				0	0	0
FUG 001 3014-95	0	0	0	0.057	0.057	0.248	0.039	0.039	0.169	0.052	0.052	0.229
FUG 002 S031-01				0.336	0.336	1.473	0.127	0.127	0.558	0.071	0.071	0.31

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

- 1,3-Butadiene: 19.09 tons/yr
- 1-Methylnaphthalene: 0.03 tons/yr
- 2,2,4-Trimethylpentane: 0.93 tons/yr
- 2-Methylnaphthalene: 0.04 tons/yr
- Acetonitrile: <0.01 tons/yr
- Ammonia: 1.00 tons/yr

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 263336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

All phases

Benzene: 8.45 tons/yr
Biphenyl: <0.01 tons/yr
Cresol: <0.01 tons/yr
Cumene: 0.02 tons/yr
Diethanolamine: <0.01 tons/yr
Ethyl benzene: 0.61 tons/yr
Hydrochloric acid: 1.53 tons/yr
Hydrogen sulfide: 2.45 tons/yr
Methanol: 0.02 tons/yr
Methyl Tertiary Butyl Ether: 0.11 tons/yr
n-Hexane: 3.99 tons/yr
Naphthalene: 0.21 tons/yr
Phenol: 0.02 tons/yr
Polynuclear Aromatic Hydrocarbons: 0.36 tons/yr
Styrene: 0.49 tons/yr
Sulfuric acid: 1.02 tons/yr
Toluene: 3.72 tons/yr
Xylene (mixed isomers): 1.61 tons/yr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

All ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

ARE003 Shared Wastewater System Emissions

- 1 Sour Water and Slop Oil Service: Equip each drain with water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(1)]
- 2 Sour Water and Slop Oil Service: Equipment/operational data monitored by visual inspection/determination once initially and monthly thereafter. Monitor drains in active service for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(2)]
Which Months: All Year Statistical Basis: None specified
- 3 Sour Water and Slop Oil Service: Equipment/operational data monitored by visual inspection/determination once initially and weekly thereafter. Monitor drains out of active service for indications of low water levels or other problems that could result in VOC emissions. Subpart QQQ. [40 CFR 60.692-2(a)(3)]
Which Months: All Year Statistical Basis: None specified
- 4 Sour Water and Slop Oil Service: Equipment/operational data monitored by technically sound method once initially and semiannually thereafter. Monitor the tightly sealed cap or plug over a drain that is out of service to ensure cap or plug are in place and properly installed. Subpart QQQ. [40 CFR 60.692-2(a)(4)]
Which Months: All Year Statistical Basis: None specified
- 5 Sour Water and Slop Oil Service: Add water or make first attempts at repair as soon as practicable, but not later than 24 hours after low water levels or missing or improperly installed caps or plugs are detected, except as specified in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(a)(5)]
- 6 Junction boxes in Sour Water and Slop Oil Service: Equip with a cover. Ensure vent pipes are at least 90 cm (3 ft) in length and do not exceed 10.2 cm (.4 in) in diameter. Subpart QQQ. [40 CFR 60.692-2(b)(1)]
- 7 Junction boxes in Sour Water and Slop Oil Service: Cover must have a tight seal around the edge and be kept in place at all times, except during inspection and maintenance. Subpart QQQ. [40 CFR 60.692-2(b)(2)]
- 8 Junction boxes in Sour Water and Slop Oil Service: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor to ensure the cover is in place and to ensure that the cover has a tight seal around the edge. Subpart QQQ. [40 CFR 60.692-2(b)(3)]
- 9 Junction boxes in Sour Water and Slop Oil Service: Make a first effort at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gap is identified, except as provided in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(b)(4)]
- 10 Sewer lines in Sour Water and Slop Oil Service: Ensure that sewer lines are not open to the atmosphere and are covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces. Subpart QQQ. [40 CFR 60.692-2(c)(1)]
- 11 Sewer lines in Sour Water and Slop Oil Service: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor the portion of each unburied sewer line for indication of cracks, gaps, or other problems that could result in VOC emissions. Subpart QQQ. [40 CFR 60.692-2(c)(2)]
Which Months: All Year Statistical Basis: None specified
- 12 Sewer lines in Sour Water and Slop Oil Service: Make repairs as soon as practicable, but not later than 15 calendar days after cracks, gaps, or other problems are detected, except as specified in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(c)(3)]
- 13 Sour Water and Slop Oil Service: Do not route refinery wastewater routed through new drains and a new first common downstream junction box, either as part of a new or existing individual drain system, through a downstream catch basin. Subpart QQQ. [40 CFR 60.692-2(e)]
- 14 Sour Water and Slop Oil Service: Before using any equipment installed in compliance with 40 CFR 60.692-2, 60.692-3, 60.692-4, 60.692-5, or 60.693, inspect such equipment for indication of potential emissions, defects, or other problems that may cause requirements of 40 CFR 60 Subpart QQQ not to be met. Subpart QQQ. [40 CFR 60.696(a)]
- 15 Sour Water and Slop Oil Service: Retain all records required by 40 CFR 60 Subpart QQQ for a period of 2 years after being recorded unless otherwise noted. Subpart QQQ. [40 CFR 60.697(a)]
- 16 Sour Water and Slop Oil Service: Inspection records recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(b)(1) through (b)(3). Subpart QQQ. [40 CFR 60.697(b)]
- 17 Sour Water and Slop Oil Service: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(e)(1) through (e)(4), as applicable. Subpart QQQ. [40 CFR 60.697(e)]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

ARE003 3208-95 - Shared Wastewater System Emissions

- 18 Sour Water and Slop Oil Service: Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 60.697(f)(1) through (f)(3) for the life of the source in a readily accessible location. Subpart QQQ. [40 CFR 60.697(f)]
- 19 Sour Water and Slop Oil Service: Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep plans or specifications which indicate the location of out of active service drains covered by tightly sealed caps or plugs for the life of the facility in a readily accessible location. Subpart QQQ. [40 CFR 60.697(g)]
- 20 Submit Notification: Due within 60 days after initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 60 Subpart QQQ has been installed and that the required initial inspections or tests of process drains, sewer lines, junction boxes, oil-water separators, and closed vent systems and control devices have been carried out in accordance with 40 CFR 60 Subpart QQQ. Thereafter, submit a certification semimnually that all of the required inspections have been carried out in accordance with 40 CFR 60 Subpart QQQ. Subpart QQQ. [40 CFR 60.698(b)(1)]
- 21 Submit report: Due initially and semimnally thereafter. Submit a report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken. Subpart QQQ. [40 CFR 60.698(c)]
- 22 Shall comply with all the applicable requirements by managing and treating in accordance with BQ6 program. Shall monitor operations and install controls where necessary. Keep records and submit reports as required. Subpart FF. [40 CFR 61.342(e)]
- 23 Compliance with all the applicable requirements of NESHAP, Subpart FF, 40 CFR 61.340 based on BQ6 provisions is considered compliance with NESHAP, Subpart CC, and LAC 33:III. Chapter 51. [40 CFR 63.1103(e), 40 CFR 63.1095(b)(2), 40 CFR 63.647, LAC 33:III.5109.A]
- EQT002 1020-95 - D-423 FR Tank
- 24 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by LDEQ. [LAC 33:III.5109.A]
- 25 Petroleum liquid storage data recordkeeping by electronic or hard copy continuously. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.113(d). Subpart K. [40 CFR 60.113]
- EQT003 1100-95 - K-484 FR Tank
- 26 Emits Class III toxic air pollutant. Maximum Achievable Control Technology (MACT) is not required as approved by LDEQ. [LAC 33:III.5109.A]
- EQT004 1108-97 - L-438 FR Tank
- 27 Emits Class III toxic air pollutant. Maximum Achievable Control Technology (MACT) is not required as approved by LDEQ. [LAC 33:III.5109.A]
- EQT005 1224-95 - XC-7005 IFR Tank
- 28 Equip with a fixed roof in combination with an internal floating roof. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(1)(i)]
- 29 Equip internal floating roof with a liquid mounted seal consisting of a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank. Subpart Kb. [40 CFR 60.112b(a)(1)(ii)(A)]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT005 1224-95 - XC-7005 IFR Tank

- 30 Equip internal floating roof with a mechanical shoe seal consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. Subpart Kb. [40 CFR 60.112b(a)(1)(ii)(C)]
- 31 Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. Equip each opening in the internal floating roof for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains with a cover or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Equip the cover or lid with a gasket. Bolt covers on each access hatch and automatic gauge float well except when they are in use. Equip automatic bleeder vents with a gasket and close at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Equip rim space vents with a gasket and set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. Subpart Kb. [40 CFR 60.112b(a)(1)]
- 32 Tank roof and seals monitored by visual inspection/determination at the regulations specified frequency. Inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, repair the items before filling the storage vessel. Subpart Kb. [40 CFR 60.113b(a)(1)]
- Which Months: All Year Statistical Basis: None specified
- 33 Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 34 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(4)]
- Which Months: All Year Statistical Basis: None specified
- 35 If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels specified in paragraph 40 CFR 60.113b(a)(3)(i) of this section. Subpart Kb. [40 CFR 60.113b(a)(4)]
- 36 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(1) and (a)(4) to afford DEQ an opportunity to have an observer present. If the inspection required by paragraph 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(a)(5)]
- 37 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]
- 38 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT005 1224-95 - XC-7005 IFR Tank

- 39 Submit a report: Due to DEQ within 30 days of each inspection required by 40 CFR 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii). The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 61.112b(a)(1) or 40 CFR 60.113b(a)(3) and list each repair made. Subpart Kb. [40 CFR 60.115b(a)(4)]
- 40 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]

- 41 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- 42 Determine the highest maximum true vapor pressure for the range of anticipated stored liquid compositions prior to the initial filling of the vessel using the methods described in 40 CFR 60.116b(e). Subpart Kb. [40 CFR 60.116b(f)(1)]

- 43 Compliance with all the applicable requirements of NSPS, Subpart Kb, 40 CFR 60.112b for an internal floating roof is considered compliance with NSPS. Subpart QQ; NESHAP, Subpart FF; NESHAP, Subpart CC; and LAC, Chapter 51 and 21. [40 CFR 60.693-2, 40 CFR 61.351, 40 CFR 63.647, LAC 33:III.2103.B and C, LAC 33:III.5109.A]

EQT006 1248-95 - XC-7006 EFR Tank

- 44 Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]

- 45 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]

- 46 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]

Which Months: All Year Statistical Basis: None specified

- 47 Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

- 48 Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT006 1248-95 - XC-7006 EFR Tank

- 49 Seal gap area <= 212 cm²/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113(b)(4)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 50 Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113(b)(4)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 51 One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113(b)(4)(i)(A)]
- 52 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113(b)(4)(i)(B)]
- 53 Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- 54 Seal gap area <= 21.2 cm²/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 55 Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]
- Which Months: All Year Statistical Basis: None specified
- 56 There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)]
- 57 Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]
- 58 Submit notification. Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]
- 59 If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]
- 60 Submit notification in writing. Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]
- 61 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113b(b)(6)]
- Which Months: All Year Statistical Basis: None specified
- 62 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(1)]
- 63 Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113b(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.112b(a)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT006 1248-95 - XC-7006 EFR Tank

- 64 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113(b) identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- 65 Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)]
- 66 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 67 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- 68 Compliance with all the applicable requirements of NSPS, Subpart Kb, 40 CFR 60.112b for an external floating roof is considered compliance with NSPS Subpart QQQ; NESHAP, Subpart FF; NESHAP, Subpart CC; and LAC, Chapter 51 and 21. [40 CFR 60.693-2(a), 40 CFR 61.351, 40 CFR 63.647, LAC 33:III.2103.B and D, LAC 33:III.5109.A]

EQT007 1261-95 - D-418 IFR Tank

- 69 Equip with a fixed roof in combination with an internal floating roof. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(1)(i)]
- 70 Equip internal floating roof with a liquid mounted seal consisting of a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank. Subpart Kb. [40 CFR 60.112b(a)(1)(ii)(A)]
- 71 Equip internal floating roof with a mechanical shoe seal consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. Subpart Kb. [40 CFR 60.112b(a)(1)(ii)(C)]
- 72 Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. Equip each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains with a cover or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Equip the cover or lid with a gasket. Bolt covers on each access hatch and automatic gauge float well except when they are in use. Equip automatic bleeder vents with a gasket and close at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Equip rim space vents with a gasket and set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. Subpart Kb. [40 CFR 60.112b(a)(1)]
- 73 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, repair the items before filling the storage vessel. Subpart Kb. [40 CFR 60.113b(a)(1)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT007 1261-95 - D-418 IFR Tank

74 Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(2)]

Which Months: All Year Statistical Basis: None specified

75 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(4)]

Which Months: All Year Statistical Basis: None specified

76 If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in 40 CFR 60.113b(a)(2) and (a)(3)(ii) and at intervals no greater than 5 years in the case of vessels specified in paragraph 40 CFR 60.113b(a)(3)(i) of this section. Subpart Kb. [40 CFR 60.113b(a)(4)]

77 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(4) to afford DEQ an opportunity to have an observer present. If the inspection required by paragraph 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(a)(5)]

78 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]

79 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]

80 Submit a report: Due to DEQ within 30 days of each inspection required by 40 CFR 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii). The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 61.112b(a)(1) or 40 CFR 60.113b(a)(3) and list each repair made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(4)]

81 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]

82 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

83 Determine the highest maximum true vapor pressure for the range of anticipated stored liquid compositions prior to the initial filling of the vessel using the methods described in 40 CFR 60.116b(e). Subpart Kb. [40 CFR 60.116b(f)(1)]

84 Compliance with all the applicable requirements of NSPS, Subpart Kb, 40 CFR 60.112b for an internal floating roof is considered compliance with NSPS, Subpart QQQ; NESHAP, Subpart FF, NESHAP, Subpart CC, and LAC, Chapter 51 and 21. [40 CFR 60.693-2, 40 CFR 61.351, 40 CFR 63.647, LAC 33.III.2103.B and C, LAC 33.III.5109.A]

EQT008 1262-95 - D-419 IFR Tank

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT008 1262-95 - D-419 IFR Tank

- 85 Equip with a fixed roof in combination with an internal floating roof. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(1)(i)]
- 86 Equip internal floating roof with a liquid mounted seal consisting of a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank. Subpart Kb. [40 CFR 60.112b(a)(1)(ii)(A)]
- 87 Equip internal floating roof with a mechanical shoe seal consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. Subpart Kb. [40 CFR 60.112b(a)(1)(iii)(C)]
- 88 Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. Equip each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains with a cover or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Equip the cover or lid with a gasket. Bolt covers on each access hatch and automatic gauge float well except when they are in use. Equip automatic bleeder vents with a gasket and close at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Equip rim space vents with a gasket and set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. Subpart Kb. [40 CFR 60.112b(a)(1)]
- 89 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, repair the items before filling the storage vessel. Subpart Kb. [40 CFR 60.113b(a)(1)]
- Which Months: All Year Statistical Basis: None specified
- 90 Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 91 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(4)]
- Which Months: All Year Statistical Basis: None specified
- 92 If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in 40 CFR 60.113b(a)(2) and (a)(3)(ii) and at intervals no greater than 5 years in the case of vessels specified in paragraph 40 CFR 60.113b(a)(3)(i) of this section. Subpart Kb. [40 CFR 60.113b(a)(4)]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT008 1262-95 - D-419 IFR Tank

- 93 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(1) and (a)(4) to afford DEQ an opportunity to have an observer present. If the inspection required by paragraph 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(a)(5)]
- 94 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]
- 95 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]
- 96 Submit a report: Due to DEQ within 30 days of each inspection required by 40 CFR 60.113b(a)(1) or 40 CFR 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii). The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 61.112b(a)(1) or 40 CFR 60.113b(a)(3) and list each repair made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(4)]

- 97 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 98 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- 99 Determine the highest maximum true vapor pressure for the range of anticipated stored liquid compositions prior to the initial filling of the vessel using the methods described in 40 CFR 60.116b(e). Subpart Kb. [40 CFR 60.116b(f)(1)]

- 100 Compliance with all the applicable requirements of NSPS, Subpart Kb, 40 CFR 60.112b for an internal floating roof is considered compliance with NSPS Subaprt QQQ; NESHAP, Subpart FF, NESHAP, Subpart CC; and LAC, Chapter 51 and 21. [40 CFR 60.693-2, 40 CFR 61.351, 40 CFR 63.647, LAC 33:III.2103.B and C, LAC 33:III.5109.A]

EQT009 1263-95 - XC-429 IFR Tank

- 101 Equip with a fixed roof in combination with an internal floating roof. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(1)(i)]
- 102 Equip internal floating roof with a liquid mounted seal consisting of a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank. Subpart Kb. [40 CFR 60.112b(a)(1)(ii)(A)]
- 103 Equip internal floating roof with a mechanical shoe seal consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. Subpart Kb. [40 CFR 60.112b(a)(1)(ii)(C)]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT009 1263-95 - XC-429 IFR Tank

104 Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. Equip each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains with a cover or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Equip the cover or lid with a gasket. Bolt covers on each access hatch and automatic gauge float well except when they are in use. Equip automatic bleeder vents with a gasket and close at all times when the roof is floating except when the roof is being landed on the roof leg supports. Equip rim space vents with a gasket and set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. Subpart Kb. [40 CFR 60.112b(a)(1)]

105 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, repair the items before filling the storage vessel. Subpart Kb. [40 CFR 60.113b(a)(1)]

Which Months: All Year Statistical Basis: None specified

106 Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(2)]

Which Months: All Year Statistical Basis: None specified

107 Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(4)]

Which Months: All Year Statistical Basis: None specified

108 If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in 40 CFR 60.113b(a)(2) and (a)(3)(ii) and at intervals no greater than 5 years in the case of vessels specified in paragraph 40 CFR 60.113b(a)(3)(i) of this section. Subpart Kb. [40 CFR 60.113b(a)(4)]

109 Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(1) and (a)(4) to afford DEQ an opportunity to have an observer present. If the inspection required by paragraph 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(a)(5)]

110 Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]

111 Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT009 1263-95 - XC-429 IFR Tank

- 112 Submit a report: Due to DEQ within 30 days of each inspection required by 40 CFR 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii). The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 61.112b(a)(1) or 40 CFR. 60.113b(a)(3) and list each repair made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(4)]
- 113 Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 114 VOL storage data recordkeeping by electronic or hard copy continuously. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- 115 Submit notification: Due within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. Subpart Kb. [40 CFR 60.116b(d)]
- 116 Determine the highest maximum true vapor pressure for the range of anticipated stored liquid compositions prior to the initial filling of the vessel using the methods described in 40 CFR 60.116b(e). Subpart Kb. [40 CFR 60.116b(f)(1)]
- 117 Compliance with all the applicable requirements of NSPS, Subpart Kb, 40 CFR 60.112b for an internal floating roof is considered compliance with NESHPAP, Subpart FF, NESHAP, Subpart CC, and LAC, Chapter 51. [40 CFR 61.351, 40 CFR 63.647, LAC 33:III.5109.A]

EQT010 3-84 - UTILITIES EAST FLARE (FE-501)

- 118 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1105]
Which Months: All Year Statistical Basis: None specified
- 119 Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours. [LAC 33:III.1105]
- 120 Submit report: Due in writing to the Office of Environmental Compliance, Surveillance Division, Surveillance Division, within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.1105. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized. [LAC 33:III.1107]
- 121 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]
- 122 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA, on request. [LAC 33:III.1513]
- 123 Compliance with all the applicable requirements of NSPS, Subpart A, 40 CFR 60.18, is considered compliance with all the applicable requirements of LAC 33:III.2115 and LAC 33:III.5109. [LAC 33:III.2115.B, LAC 33:III.5109.A]
- 124 Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
- 125 Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]
- 126 Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT010 3-84 - UTILITIES EAST FLARE (FE-501)

- 127 Exit Velocity < 400 ft/sec (122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4), and less than the velocity V_{max} , as determined by the method specified in 40 CFR 60.18(f)(5). Subpart A. [40 CFR 60.18(c)(4)(iii)]
Which Months: All Year Statistical Basis: None specified
- 128 Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]
- 129 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]
- 130 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]
Which Months: All Year Statistical Basis: None specified
- 131 Comply with the requirements of 40 CFR 60.18 and 40 CFR 63.11. Subpart FF. [40 CFR 61.349(a)(2)(iii)]
- 132 Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
- 133 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]
- 134 Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]
- 135 Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]
- 136 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]
Which Months: All Year Statistical Basis: None specified
- 137 Heat content $\geq 300 \text{ BTU/scf}$ (11.2 MJ/sec). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(l)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(ii)]
Which Months: All Year Statistical Basis: None specified
- 138 Exit Velocity < 400 ft/sec and V_{max} , as determined by the method specified in 40 CFR 63.11(b)(7)(i). Determine V_{max} using the method specified in 40 CFR 63.11(b)(7)(iii). Subpart A. [40 CFR 63.11(b)(7)(iii)]
Which Months: All Year Statistical Basis: None specified
- 139 Presence of a flame monitored by the regulation's specified method(s) continuously. Use a device (including, but not limited to, a thermocouple, an ultraviolet bean sensor, or an infrared sensor) capable of continuously detecting the presence of a pilot flame. Subpart CC. [40 CFR 63.644(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 140 Equipment/operational data recordkeeping by recorder hourly. Keep the records specified in 40 CFR 63.654(i)(3)(1) through (i)(3)(v). Subpart CC. [40 CFR 63.654(i)(3)]
- 141 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 142 Equipment/operational data monitored by technically sound method continuously. [40 CFR 64.6(c)(1)]
- Which Months: All Year Statistical Basis: None specified
- 143 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 144 An excursion or exceedance is defined as failure of the flare pilot flame. [40 CFR 64.6(c)(2)]
- 145 Equipment/operational data recordkeeping by electronic or hard copy continuously. [40 CFR 64.6(c)(4)]
- 146 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

SPECIFIC REQUIREMENTS

Alt ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT010 3-84 - UTILITIES EAST FLARE (FE-501)

147 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]

148 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

149 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

150 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

151 Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

152 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT011 5-84 - WEST OPS ELEVATED FLARE (FE-601)

153 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1105] Which Months: All Year Statistical Basis: None specified

154 Submit notification: Due to the Office of Environmental Compliance as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours. [LAC 33:III.1105]

155 Submit report: Due in writing to the Office of Environmental Compliance, Surveillance Division, within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.1105. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized. [LAC 33:III.1107]

156 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.1-7. [LAC 33:III.1305]

157 Equipment/operational data recordkeeping by electronic or hard copy continuously. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]

SPECIFIC REQUIREMENTS

All ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT011 5-84 - WEST OPS ELEVATED FLARE (FE-601)

158 The following vents are routed to this flare from Motiva Enterprises LLC, Norco Refinery:

NSPS, 40 CFR 60 Subpart GGG vents

Tandem seal barrier fluid seal pots vents (P-3565 thru 3569)

Sample venting from RA Tops, Sats RA Bottoms, Debutanizer Tops and Bottoms,

Depropanizer Tops and Bottoms, DIH Tops and Bottoms

NSPS, 40 CFR 60 Subpart QQQ vents

Sour Water Flash Drum (PV-1431 and 1432) at DU-4

NESHPAP, 40 CFR 61 Subpart FF vents

Sour Water Surge Drum (PV-764) at DU-5

Sour Water Flash Drum (PV-1431 and 1432) at DU-4

Sour Water Surge Drum (PV-764) at DU-5

NESHPAP, 40 CFR 63 Subpart CC vents

Sour Water Flash Drum (PV-1431 and 1432) at DU-4

Sour Water Surge Drum (PV-764) at DU-5

DIH Feed Surge and DIH O/H Accumulator Vent (PV-781 and 783)

PV-195B Venting on (PV-757), Crude Column 2nd Stage Accumulator. [LAC 33.III.S01.C.6]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT011 5-84 - WEST OPS ELEVATED FLARE (FE-601)

159 The following vents are routed to this flare from Motiva Enterprises LLC, Norco Refinery:

LAC 33:III.2141 vents

RCCU/SBA Cold Blowdown System Usage during Shutdown or Maintenance

LAC 33:III.1509

Vacuum Flasher Waste Gas Compressor (K-1876)

RCCU/SBA Cold Blowdown System Usage during Shutdown or Maintenance

Suction and Discharge Pot Draining (K-1876 and K-1879)

Sour Water Flash Drum (PV-1431 and 1432) at DU-4

DU-5 Vent Compressor Maintenance (K-1879)

Sour Water Surge Drum (PV-764) at DU-5

DIH Bottoms Sample Vent

Crude Column 2nd Stage Accumulator (PCV-195B, PV-757)

LAC 33:III.2115

DIH Feed Surge (PV-781) and DIH O/H Accumulator Vent (PV-783)

Suction and Discharge Pot Draining (K-1876 and K-1879)

LAC 33:III.5109

Sour Water Flash Drum (PV-1431 and 1432) at DU-4

Sour Water Surge Drum (PV-764) at DU-5

DIH Feed Surge (PV-781) and DIH O/H Accumulator Vent (PV-783)

Crude Column 2nd Stage Accumulator (PCV-195B, PV-757)

[LAC 33:III.501.C.6]

160 Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
161 Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]
162 Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]

Which Months: All Year Statistical Basis: None specified

163 Exit Velocity < 400 ft/sec (122 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4), and less than the velocity Vmax, as determined by the method specified in 40 CFR 60.18(f)(5). Subpart A. [40 CFR 60.18(c)(4)(iii)]
Which Months: All Year Statistical Basis: None specified
164 Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares.
Subpart A. [40 CFR 60.18(d)]

165 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT011 5-84 - WEST OPS ELEVATED FLARE (FE-601)

- 166 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]
Which Months: All Year Statistical Basis: None specified
- 167 Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
- 168 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]
- 169 Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]
- 170 Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]
- 171 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]
Which Months: All Year Statistical Basis: None specified
- 172 Heat content ≥ 300 BTU/scf (11.2 MJ/sec). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(p)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 173 Exit Velocity < 400 ft/sec and Vmax, as determined by the method specified in 40 CFR 63.11(b)(7)(i). Determine Vmax using the method specified in 40 CFR 63.11(b)(7)(iii). Subpart A. [40 CFR 63.11(b)(7)(iii)]
- Which Months: All Year Statistical Basis: None specified

EQT012 CNTLVENT 54 UE - Fuel System Excess Gas Venting

- 174 Emissions are routed to an existing Utilities East Flare (FE-501), Emission Point 3-84. [40 CFR 60.662(b), 40 CFR 63.119(f)(3)(ii), LAC 33.III.5109.A, LAC 33.III.2115.A]
175 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 176 Permittee shall comply with all the applicable requirements of NSPS, 40 CFR 60.7 and 60.18. [40 CFR 64.4(b)]
- 177 Equipment/operational data monitored by technically sound method continuously. [40 CFR 64.6(c)(1)]
Which Months: All Year Statistical Basis: None specified
- 178 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 179 An excursion or exceedance is defined as failure of the flare pilot flame. [40 CFR 64.6(c)(2)]
- 180 Equipment/operational data recordkeeping by electronic or hard copy continuously. [40 CFR 64.6(c)(4)]
- 181 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 182 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT012 CNTLVENT 54 UE - Fuel System Excess Gas Venting

183 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]

184 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

185 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]

186 Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

187 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT013 CNTLVENT 55 UE - Venting from Flash vessels upstream of XC7005/7006

188 Group 2: Emissions are routed to an existing Utilities East Flare (FE-501), Emission Point 3-84. [40 CFR 63.647, 40 CFR 61.346, 40 CFR 61.349, 40 CFR 60.692-3(b), LAC 33:III.5109.A]

EQT014 CNTLVENT 664 UE - AE2074 (FGBD SG Analyzer) Vent to Flare

189 Emissions are routed to an existing Utilities East Flare (FE-501), Emission Point 3-84. [LAC 33:III.501.C.6]

EQT015 CNTLVNT514S-411 - S-411 Routine venting

190 Emissions are routed primarily to an existing Fract Plant Ground Flare, Emission Point 1-84, and secondarily to an existing North Property Elevated Flare, Emission Point 3-93, both owned and operated by Enterprise Products LLC and permitted under Part 70 Permit No. 2429-V0 issued in June 1998. [40 CFR 63.119(e), LAC 33:III.5109.A, 40 CFR 60.112a(b), LAC 33:III.2103.F]

EQT016 CNTLVNT515S-417 - S-417 Routine venting

191 Emissions are routed primarily to an existing Fract Plant Ground Flare, Emission Point 1-84, and secondarily to an existing North Property Elevated Flare, Emission Point 3-93, both owned and operated by Enterprise Products LLC, permitted under Part 70 Permit No. 2429-V0 issued in June 1998, and comply with all the applicable requirements of NSPS, Subpart A, 40 CFR 60.18. [40 CFR 63.119(a)(3), LAC 33:III.5109.A, 40 CFR 60.112a(b), LAC 33:III.2103.F, 40 CFR 64]

EQT017 CNTLVNT97S-412 - S-412 Routine venting

192 Emissions are routed primarily to an existing Fract Plant Ground Flare, Emission Point 1-84, and secondarily to an existing North Property Elevated Flare, Emission Point 3-93, both owned and operated by Enterprise Products LLC, permitted under Part 70 Permit No. 2429-V0 issued in June 1998, and comply with all the applicable requirements of NSPS, Subpart A, 40 CFR 60.18. [40 CFR 63.119(e), LAC 33:III.5109.A, 40 CFR 60.112a(b), LAC 33:III.2103.F, 40 CFR 64]

EQT018 Fuel Gas Blend Drum - Utilities Fuel Gas Blend Drum

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT018 Fuel Gas Blend Drum - Utilities Fuel Gas Blend Drum

- 193 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
Which Months: All Year Statistical Basis: None specified
- 194 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device.
Subpart J. [40 CFR 60.105(a)(4)]
Which Months: All Year Statistical Basis: None specified
- 195 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 196 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]
- 197 Permittee shall maintain monitoring and performance records for at least 2 years and report every quarter for excess emissions on a 3 hour rolling average
[40 CFR 60.105(e)]

EQT019 XC-409 - Tank XC409 and vent, in Sour water service

- 198 Emissions are routed to an existing Utilities East Flare (FE-501), Emission Point 3-84. [40 CFR 61.349(a)(1), 40 CFR 61.349(a)(2)(ii), 40 CFR 60.112(b)(a)(3)(i), 40 CFR 61.343(a)(1), LAC 33.III.5109.A, LAC 33.III.2103.B and E, 40 CFR 63.647(a) and (b), 40 CFR 60.112(b)(a)(3)(ii), 40 CFR 60.113(b)(d)]
199 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
200 Permittee shall comply with all the applicable requirements of NSPS, 40 CFR 60.7 and 60.18. [40 CFR 64.4(b)]
201 Comply with the submitted implementation plan and schedule for installing, testing, and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
202 Equipment/operational data monitored by technically sound method continuously. [40 CFR 64.6(c)(1)]
Which Months: All Year Statistical Basis: None specified
- 203 Submit Notification: Due at the DEQ upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
204 An excursion or exceedance is defined as failure of the flare pilot flame. [40 CFR 64.6(c)(2)]
- 205 Equipment/operational data recordkeeping by electronic or hard copy continuously. [40 CFR 64.6(c)(4)]
- 206 Schedule for installation, testing or final verification of operational status:^{*} [40 CFR 64.6(d)]
- 207 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 208 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 209 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT019

XC-409 - Tank XC409 and vent, in Sour water service

- 210 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 211 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the ^ emission limitation or the ^ standard for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
- 212 Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 213 Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 214 Monitoring data recordkeeping by electronic or hard copy continuously. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 215 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

EQT020

XC-430 - Tank XC430 and vent, in either Ballast or Sour water service

- 216 Emissions are routed to an existing Utilities East Flare (FE-501), Emission Point 3-84. [40 CFR 61.349(a)(1), 40 CFR 61.349(a)(2)(iii), 40 CFR 60.112b(a)(3)(i), 40 CFR 60.112b(a)(3)(ii), 40 CFR 60.113b(d), 40 CFR 61.343(a)(1), LAC 33:III.5109.A, LAC 33:III.2103.B and E, 40 CFR 63.647(a) and (b)]

EQT025

5037-95, Shared Sources ICES

- 217 Equipment/operational data <= 873600 horsepower - hour per year used for maintenance activities. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the hp-hr utilization exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 218 Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total horsepower per hour utilized from the internal combustion engines during routine maintenance activities, backup operations, temporary power requirements, and compressed air on site each month, as well as the total horsepower per hour utilized from the internal combustion engines during routine maintenance activities, backup operations, temporary power requirements, and compressed air for the last twelve months. Make records available for inspection by DEQ personnel. [LAC 33:III.501.C.6]
- 219 Submit report: Due annually, by the 31st of March. Report the total operating horsepower per hour utilized from the internal combustion engines during routine maintenance activities, backup operations, temporary power, compressed air on site along with the corresponding calculated emissions for the preceding calendar year to the Office of Environmental Compliance, Compliance Division. [LAC 33:III.501.C.6]
- 220 Equipment/operational data <= 231168 horsepower - hour per year used for temporary power for electrical systems maintenance acitivities. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the hp-hr utilization exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

All ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

EQT025 5037-95, Shared Sources ICES

- 221 Equipment/operational data <= 924672 horsepower - hour per year used for temporary air compressors when permanent steam/electric utility air system compressors are down for maintenance activities. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the hp-hr utilization exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified
- 222 Equipment/operational data <= 233920 horsepower - hour per year used for diesel on backup Nitrogen Supply Truck. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the hp-hr utilization exceeds the maximum listed in this specific condition for any twelve consecutive month period. [LAC 33:III.501.C.6]
- Which Months: All Year Statistical Basis: None specified

FUG001 3014-95 - FUGITIVE EMISSIONS - CUS

- 223 Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration. [LAC 33:III.2121.B.1]
- 224 Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device. [LAC 33:III.2121.B.2]
- 225 Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided. [LAC 33:III.2121.B.3]
- 226 Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.1.a.i]
- Which Months: All Year Statistical Basis: None specified
- 227 Valves in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.C.1.a.ii]
- Which Months: All Year Statistical Basis: None specified
- 228 Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.1.a.iii]
- Which Months: All Year Statistical Basis: None specified
- 229 Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.1.b.1]
- Which Months: All Year Statistical Basis: None specified
- 230 Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions). [LAC 33:III.2121.C.1.b.ii]
- Which Months: All Year Statistical Basis: None specified
- 231 Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.C.1.b.iii]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

FUG001 3014-95 - FUGITIVE EMISSIONS - CUS

- 232 Valves in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions). [LAC 33:III.2121.C.1.b.iv]
- Which Months: All Year Statistical Basis: None specified
- 233 Pumps in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions). [LAC 33:III.2121.C.1.b.v]
- Which Months: All Year Statistical Basis: None specified
- 234 Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year). [LAC 33:III.2121.C.1.s]
- Which Months: All Year Statistical Basis: None specified
- 235 Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.3.a]
- Which Months: All Year Statistical Basis: None specified
- 236 All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless electing to implement actions as specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.3.b]
- Which Months: All Year Statistical Basis: None specified
- 237 Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum). [LAC 33:III.2121.C.4.c]
- Which Months: All Year Statistical Basis: None specified
- 238 Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely. [LAC 33:III.2121.C.4.c]
- Which Months: All Year Statistical Basis: None specified
- 239 When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired. [LAC 33:III.2121.E.1]
- 240 Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request. [LAC 33:III.2121.E]
- 241 Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Environmental Technology Division. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period. [LAC 33:III.2121.F]
- 242 Demonstrate compliance with the requirements of 40 CFR 60.482-1 to 40 CFR 60.482-10 for all equipment within 180 days of initial startup. Subpart VV. [40 CFR 60.482-1(a)]
- 243 Pumps in light liquid service (no dual mechanical seal system): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks by the methods specified in 40 CFR 60.485(b). If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(c). Subpart VV. [40 CFR 60.482-2(a)(1)]
- Which Months: All Year Statistical Basis: None specified
- 244 Pumps in light liquid service (no dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(c). Subpart VV. [40 CFR 60.482-2(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- 245 Pumps in light liquid service (no dual mechanical seal system): When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-2(c)]

SPECIFIC REQUIREMENTS

All ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

FUG001 3014-95 - FUGITIVE EMISSIONS - CUS

- 246 Pumps in light liquid service (dual mechanical seal system): Operate the seal system with the barrier fluid at a pressure that is greater than the pump stuffing box pressure; OR equip the seal system with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of 40 CFR 60.482-10; OR equip the seal system with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. Subpart VV. [40 CFR 60.482-2(d)(1)]
- 247 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is in heavy liquid service or not in VOC service. Subpart VV. [40 CFR 60.482-2(d)(2)]
- 248 Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart VV. [40 CFR 60.482-2(d)(3)]
- 249 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(d)(4)
- 2(d)(6)(ii) and (iii). Subpart VV. [40 CFR 60.482-2(d)(6)(ii) and (iii)]. Subpart VV. [40 CFR 60.482-2(d)(5)(i)]
- Which Months: All Year Statistical Basis: None specified
- 250 Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily, or equip the sensor with an audible alarm. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in 40 CFR 60.482-2(d)(5)(ii), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(d)(6)(ii) and (iii). Subpart VV. [40 CFR 60.482-2(d)(5)(i)]
- Which Months: All Year Statistical Basis: None specified
- 251 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart VV. [40 CFR 60.482-2(d)(5)(ii)]
- 252 Pumps in light liquid service (dual mechanical seal system): When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-2(d)(6)]
- 253 Pumps in light liquid service (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-2(e)(3)]
- Which Months: All Year Statistical Basis: None specified
- 254 Pumps in light liquid service (unsafe-to-monitor): Demonstrate that the pump is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-2(a). Subpart VV. [40 CFR 60.482-2(g)(1)]
- 255 Pumps in light liquid service (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe to monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 60.482-2(c) if a leak is detected. Subpart VV. [40 CFR 60.482-2(g)(2)]
- Which Months: All Year Statistical Basis: None specified
- 256 Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulations specified frequency. Subpart VV. [40 CFR 60.482-2(h)]
- Which Months: All Year Statistical Basis: None specified
- 257 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as specified in 40 CFR 60.482-1(c) and 40 CFR 60.482-3(h) and (i). Subpart VV. [40 CFR 60.482-3(a)]
- 258 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip the seal system with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of 40 CFR 60.482-10; or equip the seal system with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. Subpart VV. [40 CFR 60.482-3(b)]
- 259 Compressors: Ensure that the barrier fluid is in heavy liquid service or not in VOC service. Subpart VV. [40 CFR 60.482-3(c)]

SPECIFIC REQUIREMENTS

All ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

FUG001 3014-95 - FUGITIVE EMISSIONS - CUS

- 260 Compressors: Equip each barrier fluid system as described in 40 CFR 60.482-3(a) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart VV. [40 CFR 60.482-3(d)]
- 261 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm. If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined under 40 CFR 60.482-3(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-3(g). Subpart VV. [40 CFR 60.482-3(e)(1)]
- Which Months: All Year Statistical Basis: None specified
- 262 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart VV. [40 CFR 60.482-3(e)(2)]
- 263 Compressors: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-3(g)]
- 264 Compressors (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-3(i)(2)]
- Which Months: All Year Statistical Basis: None specified
- 265 Pressure relief devices in gas/vapor service: VOC, Total < 500 ppm above background, except during pressure releases, as determined by the methods specified in 40 CFR 60.485(c). Subpart VV. [40 CFR 60.482-4(a)]
- Which Months: All Year Statistical Basis: None specified
- 266 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-4(b)(1)]
- 267 Pressure relief devices in gas/vapor service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after a pressure release, to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as specified in 40 CFR 60.485(c). Subpart VV. [40 CFR 60.482-4(b)(2)]
- Which Months: All Year Statistical Basis: None specified
- 268 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-4(d)(2)]
- 269 Sampling connection systems: Equip with a closed-purged, closed-loop, or closed-vent system, except as provided in 40 CFR 60.482-1(c). Operate the system as specified in 40 CFR 60.482-5(a) and (b). Subpart VV. [40 CFR 60.482-5]
- 270 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 60.482-1(c). The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line. Operate each open-ended valve or line equipped with a second valve such that the valve on the process fluid end is closed before the second valve is closed. The bleed valve or line may remain open during operations requiring venting the line between the block valves of a double block-and-bleed system, but shall comply with 40 CFR 60.482-6(a) at all other times. Subpart VV. [40 CFR 60.482-6]
- 271 Valves in gas/vapor service and in liquid service: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-7(d)]
- 272 Valves in gas/vapor service and in light liquid service (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-7(f)(3)]
- Which Months: All Year Statistical Basis: None specified
- 273 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-7(a). Subpart VV. [40 CFR 60.482-7(g)(1)]

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- 274 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency.
Adhere to a written plan that requires monitoring of the valve as frequently as practicable during safe to monitor times. Subpart VV. [40 CFR 60.482-7(h)(2)]
Which Months: All Year Statistical Basis: None specified
- 275 Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface. Subpart VV. [40 CFR 60.482-7(h)(1)]
- 276 Valves in gas/vapor service and in light liquid service (difficult-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually. Follow a written plan that requires monitoring of the valve at least once per calendar year. Subpart VV. [40 CFR 60.482-7(h)(3)]
Which Months: All Year Statistical Basis: None specified
- 277 Valves in gas/vapor service and in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks by the methods specified in 40 CFR 60.485(b). Permittee may elect to comply with the alternate standards in 40 CFR 60.482-7(c), 60.483-1, or 60.483-2. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-7(d). Subpart VV. [40 CFR 60.482-7]
- 278 Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) by the method specified in 40 CFR 60.485(b), if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method and comply with the requirements of 40 CFR 60.482-8(b) through (d); OR eliminate the indication of a leak. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-8(c). Subpart VV. [40 CFR 60.482-8(a)]
Which Months: All Year Statistical Basis: None specified
- 279 Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-8(c)]
- 280 In conducting the performance tests required in 40 CFR 60.8, use as reference methods and procedures the test methods in Appendix A of Part 60 or other methods and procedures as specified in 40 CFR 60.485, except as provided in 40 CFR 60.8(b). Conduct any other required demonstrations using the test methods and procedures outlined. Subpart VV. [40 CFR 60.485]
- 281 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record and maintain records as specified 40 CFR 60.486(a) through (k). Subpart VV. [40 CFR 60.486]
- 282 Submit performance test results: Due in accordance with 40 CFR 60.8 of the General Provisions. Subpart J. [40 CFR 61.112(a)]
- 283 Comply with the requirements of 40 CFR 61 Subpart V. Subpart J. [40 CFR 61.112(a)]
- 284 Permittee shall comply with all the applicable requirements of NESHAP, Subpart UU for equipment that contains or contacts 5% by weight organic HAP and is not in vacuum service. Subpart UU. [40 CFR 63.1019, 40 CFR 63.1022-1024]
- 285 Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- 286 Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(1)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]

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287 Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase II); 5,000 ppm (phase III); or 5,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]

Which Months: All Year Statistical Basis: None specified

288 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]

Which Months: All Year Statistical Basis: None specified

289 Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]

290 Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]

291 Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]

292 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Subpart H. [40 CFR 63.163(e)(1)]

293 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.163(e)(2)]

294 Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.163(e)(3)]

295 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Subpart H. [40 CFR 63.163(e)(4)]

Which Months: All Year Statistical Basis: None specified

296 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.163(e)(6)(i)]

297 Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.163(e)(6)]

298 Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Subpart H. [40 CFR 63.163(e)]

Which Months: All Year Statistical Basis: None specified

299 Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Subpart H. [40 CFR 63.163(j)(1)]

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- 300 Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.163(j)(2)]
Which Months: All Year Statistical Basis: None specified
- 301 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
- 302 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
- 303 Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]
- 304 Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
- 305 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- 306 Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- 307 Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart H. [40 CFR 63.164(i)(2)]
Which Months: All Year Statistical Basis: None specified
- 308 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H. [40 CFR 63.164]
- 309 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
Which Months: All Year Statistical Basis: None specified
- 310 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
- 311 Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
Which Months: All Year Statistical Basis: None specified
- 312 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart V. [40 CFR 63.165(d)(2)]
- 313 Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H. [40 CFR 63.166]

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314 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H. [40 CFR 63.167]

315 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]

Which Months: All Year Statistical Basis: None specified

316 Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]

Which Months: All Year Statistical Basis: None specified

317 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]

Which Months: All Year Statistical Basis: None specified

318 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f).

Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]

Which Months: All Year Statistical Basis: None specified

319 Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]

320 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]

Which Months: All Year Statistical Basis: None specified

321 Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]

322 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(h)(1)]

323 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.168(h)(2)]

Which Months: All Year Statistical Basis: None specified

324 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Subpart H. [40 CFR 63.168(i)(1)]

325 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Subpart H. [40 CFR 63.168(i)(3)]

Which Months: All Year Statistical Basis: None specified

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326 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/mechanical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(a). Subpart H. [40 CFR 63.169(a)]

Which Months: All Year Statistical Basis: None specified
327 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]

328 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H. [Table 2 or Table 3. Subpart H. [40 CFR 63.170]

329 Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]

Which Months: All Year Statistical Basis: None specified
330 Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]

Which Months: All Year Statistical Basis: None specified
331 Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]

332 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Subpart H. [40 CFR 63.173(d)(1)]

333 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Subpart H. [40 CFR 63.173(d)(2)]

334 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.173(d)(3)]

335 Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Subpart H. [40 CFR 63.173(d)(4)]

Which Months: All Year Statistical Basis: None specified

336 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.173(d)(6)(i)]

337 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(d)(6)]

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338 Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Subpart H. [40 CFR 63.173(d)]

Which Months: All Year Statistical Basis: None specified

339 Agitators in gas/vapor service or light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Subpart H. [40 CFR 63.173(g)]

Which Months: All Year Statistical Basis: None specified

340 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Subpart H. [40 CFR 63.173(h)(1)]

341 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Subpart H. [40 CFR 63.173(h)(3)]

Which Months: All Year Statistical Basis: None specified

342 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]

343 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.173(j)(2)]

Which Months: All Year Statistical Basis: None specified

344 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]

Which Months: All Year Statistical Basis: None specified

345 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within the first 12 months after initial startup or by no later than 12 months after the date of promulgation of a specific subpart that references 40 CFR 63 Subpart H, whichever is later, except as specified in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(2)]

Which Months: All Year Statistical Basis: None specified

346 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]

Which Months: All Year Statistical Basis: None specified

347 Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]

Which Months: All Year Statistical Basis: None specified

348 Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER200200001

Permit Number: 2510-V2

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- 349 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]
- 350 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 351 Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- 352 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Subpart H. [40 CFR 63.174(f)(1)]
- 353 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Subpart H. [40 CFR 63.174(f)(2)]
- Which Months: All Year Statistical Basis: None specified
- 354 Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(g)]
- 355 Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(h)(2)]
- 356 Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]
- 357 Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H. [40 CFR 63.180]
- 358 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k).
- Subpart H. [40 CFR 63.181]
- 359 Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 360 Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 361 Compliance with all the applicable requirements of NESHAP, Subpart H and Subpart YY is considered compliance with the requirements of LAC, Chapter 51. [40 CFR 63.648, 40 CFR 63.1107, LAC 33:III.5109.A]

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- 362 Repair according to LAC 33:III.2121.B.3 any regulated component observed leaking by sight, sound, or smell, regardless of the leak's concentration. [LAC 33:III.2121.B.1]
- 363 Do not locate any valve, except safety pressure relief valves, valves on sample lines, valves on drain lines and valves that can be removed and replaced without a shutdown, at the end of a pipe or line containing VOC unless the end of such line is sealed with a second valve, a blind flange, a plug, or a cap. Remove such sealing devices only when the line is in use, for example, when a sample is being taken. When the line has been used and is subsequently resealed, close the upstream valve first, followed by the sealing device. [LAC 33:III.2121.B.2]
- 364 Make every reasonable effort to repair a leaking component, as described in LAC 33:III.2121.B, within 15 days, except as provided. [LAC 33:III.2121.B.3]

SPECIFIC REQUIREMENTS

All ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

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365 Pump seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected.
If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.1.a.i]

Which Months: All Year Statistical Basis: None specified
Values in liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.1.a.ii]

Which Months: All Year Statistical Basis: None specified
Process drains: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (one time per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.1.a.iii]

367 Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.1.b.i]

368 Compressor seals: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.1.b.ii]

369 Valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions). [LAC 33:III.2121.C.1.b.iii]

370 Which Months: All Year Statistical Basis: None specified
Pressure relief valves in gas service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.1.b.iii]

371 Which Months: All Year Statistical Basis: None specified
Valves in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions). [LAC 33:III.2121.C.1.b.iv]

372 Which Months: All Year Statistical Basis: None specified
Pumps in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 quarterly (four times per year). If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. Permittee may elect to comply with the alternate standards for valves in LAC 33:III.2121.D (skip period provisions). [LAC 33:III.2121.C.1.b.v]

373 Which Months: All Year Statistical Basis: None specified
Pumps: Seal or closure mechanism monitored by visual inspection/determination weekly (52 times per year). [LAC 33:III.2121.C.1.c]

374 Which Months: All Year Statistical Basis: None specified
Pressure relief valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 24 hours after venting to the atmosphere. If a reading of 10,000 ppmv or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.3.a]

375 Which Months: All Year Statistical Basis: None specified
All components: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of a leak detected by sight, smell, or sound, unless actions as specified in LAC 33:III.2121.B.3. [LAC 33:III.2121.C.3.b]

376 Which Months: All Year Statistical Basis: None specified
Inaccessible valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually (at a minimum). [LAC 33:III.2121.C.4.c]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

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377 Unsafe-to-monitor valves: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 upon each occurrence of conditions allowing these valves to be monitored safely.

[LAC 33:III.2121.C.4.c]

Which Months: All Year Statistical Basis: None specified

378 When a leak that cannot be repaired on-line and in-place is located, affix to the leaking component a weatherproof and readily visible tag bearing an identification number and the date the leak is located. Date and remove the tag after the leak is repaired. [LAC 33:III.2121.E.1]

379 Equipment/operational data recordkeeping by survey log upon each occurrence of a leak. Include the leaking component information specified in LAC 33:III.2121.E.2. Retain the survey log for two years after the latter date specified in LAC 33:III.2121.E.2 and make said log available to DEQ upon request. [LAC 33:III.2121.E.3]

380 Submit report: Due semiannually, by the 31st of January and July, to the Office of Environmental Assessment, Environmental Technology Division. Include the information specified in LAC 33:III.2121.F.1 through 4 for each calendar quarter during the reporting period. [LAC 33:III.2121.F.1]

381 Demonstrate compliance with the requirements of 40 CFR 60.482-1 to 40 CFR 60.482-10 for all equipment within 180 days of initial startup. Subpart VV. [40 CFR 60.482-1(a)]

382 Pumps in light liquid service (no dual mechanical seal system): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks by the methods specified in 40 CFR 60.485(b). If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(c). Subpart VV. [40 CFR 60.482-2(a)(1)]

Which Months: All Year Statistical Basis: None specified

383 Pumps in light liquid service (no dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(c). Subpart VV. [40 CFR 60.482-2(a)(2)]

384 Pumps in light liquid service (no dual mechanical seal system): When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-2(c)]

385 Pumps in light liquid service (dual mechanical seal system): Operate the seal system with the barrier fluid at a pressure that is greater than the pump stuffing box pressure; OR equip the seal system with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of 40 CFR 60.482-10; OR equip the seal system with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. Subpart VV. [40 CFR 60.482-2(d)(1)]

386 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is in heavy liquid service or not in VOC service. Subpart VV. [40 CFR 60.482-2(d)(2)]

387 Pumps in light liquid service (dual mechanical seal system): Equip each barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart VV. [40 CFR 60.482-2(d)(3)]

388 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(d)(4)]

389 Which Months: All Year Statistical Basis: None specified

390 Pumps in light liquid service (dual mechanical seal system): Equipment/operational data monitored by visual inspection/determination daily, or equip the sensor with an audible alarm. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined in 40 CFR 60.482-2(d)(5)(ii), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-2(d)(6)(ii) and (iii). Subpart VV. [40 CFR 60.482-2(d)(5)(i)]

391 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart VV. [40 CFR 60.482-2(d)(5)(ii)]

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- 391 Pumps in light liquid service (dual mechanical seal system): When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-2(d)(6)]
- 392 Pumps in light liquid service (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-2(e)(3)]
- Which Months: All Year Statistical Basis: None specified
- 393 Pumps in light liquid service (unsafe-to-monitor): Demonstrate that the pump is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-2(a). Subpart VV. [40 CFR 60.482-2(g)(1)]
- 394 Pumps in light liquid service (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe to monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in 40 CFR 60.482-2(c) if a leak is detected. Subpart VV. [40 CFR 60.482-2(g)(2)]
- Which Months: All Year Statistical Basis: None specified
- 395 Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Subpart VV. [40 CFR 60.482-2(h)]
- Which Months: All Year Statistical Basis: None specified
- 396 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as specified in 40 CFR 60.482-1(c) and 40 CFR 60.482-3(h) and (i). Subpart VV. [40 CFR 60.482-3(a)]
- 397 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip the seal system with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed vent system to a control device that complies with the requirements of 40 CFR 60.482-10; or equip the seal system with a system that purges the barrier fluid into a process stream with zero VOC emissions to the atmosphere. Subpart VV. [40 CFR 60.482-3(b)]
- 398 Compressors: Ensure that the barrier fluid is in heavy liquid service or not in VOC service. Subpart VV. [40 CFR 60.482-3(c)]
- 399 Compressors: Equip each barrier fluid system as described in 40 CFR 60.482-3(a) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart VV. [40 CFR 60.482-3(d)]
- 400 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm. If the sensor indicates failure of the seal system, the barrier system, or both based on the criterion determined under 40 CFR 60.482-3(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-3(g). Subpart VV. [40 CFR 60.482-3(e)(1)]
- Which Months: All Year Statistical Basis: None specified
- 401 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart VV. [40 CFR 60.482-3(e)(2)]
- 402 Compressors: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-3(g)]
- 403 Compressors (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-3(i)(2)]
- Which Months: All Year Statistical Basis: None specified
- 404 Pressure relief devices in gas/vapor service: VOC, Total < 500 ppm above background, except during pressure releases, as determined by the methods specified in 40 CFR 60.485(c). Subpart VV. [40 CFR 60.482-4(a)]
- Which Months: All Year Statistical Basis: None specified

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405 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-4(b)(1)]

406 Pressure relief devices in gas/vapor service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after a pressure release, to confirm the conditions of no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as specified in 40 CFR 60.485(c). Subpart VV. [40 CFR 60.482-4(b)(2)]

Which Months: All Year Statistical Basis: None specified

407 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 60.482-4(d)(2)]

408 Sampling connection systems: Equip with a closed-purged, closed-loop, or closed-vent system, except as provided in 40 CFR 60.482-1(c). Operate the system as specified in 40 CFR 60.482-5(a) and (b). Subpart VV. [40 CFR 60.482-5]

409 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 60.482-1(c). The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line. Operate each open-ended valve or line equipped with a second valve such that the valve on the process fluid end is closed before the second valve is closed. The bleed valve or line may remain open during operations requiring venting the line between the block valves of a double block-and-bleed system, but shall comply with 40 CFR 60.482-6(a) at all other times. Subpart VV. [40 CFR 60.482-6]

410 Valves in gas/vapor service and in light liquid service: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-7(d)]

411 Valves in gas/vapor service and in light liquid service (no detectable emissions): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Subpart VV. [40 CFR 60.482-7(f)(3)]

Which Months: All Year Statistical Basis: None specified

412 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 60.482-7(a). Subpart VV. [40 CFR 60.482-7(g)(1)]

413 Valves in gas/vapor service and in light liquid service (unsafe-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Adhere to a written plan that requires monitoring of the valve as frequently as practicable during safe to monitor times. Subpart VV. [40 CFR 60.482-7(g)(2)]

Which Months: All Year Statistical Basis: None specified

414 Valves in gas/vapor service and in light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface. Subpart VV. [40 CFR 60.482-7(h)(1)]

415 Valves in gas/vapor service and in light liquid service (difficult-to-monitor): VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 annually. Follow a written plan that requires monitoring of the valve at least once per calendar year. Subpart VV. [40 CFR 60.482-7(h)(3)]

Which Months: All Year Statistical Basis: None specified

416 Valves in gas/vapor service and in light liquid service: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks by the methods specified in 40 CFR 60.485(b). Permittee may elect to comply with the alternate standards in 40 CFR 60.482-8(b) through (d); OR eliminate the indication of a leak. If an instrument reading of 10,000 ppm or measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-7(d). Subpart VV. [40 CFR 60.482-7]

Which Months: All Year Statistical Basis: None specified

417 Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors: VOC, Total monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) by the method specified in 40 CFR 60.485(b), if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method and comply with the requirements of 40 CFR 60.482-8(b) through (d); OR eliminate the indication of a leak. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 60.482-8(c). Subpart VV. [40 CFR 60.482-8(a)]

Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site
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- 418 Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and connectors: When a leak is detected, make a first attempt at repair no later than 5 calendar days after each leak is detected and complete repairs no later than 15 calendar days after it is detected, except as provided in 40 CFR 60.482-9. Subpart VV. [40 CFR 60.482-8(c)]
- 419 In conducting the performance tests required in 40 CFR 60.8, use as reference methods and procedures the test methods in Appendix A of Part 60 or other methods and procedures as specified in 40 CFR 60.485, except as provided in 40 CFR 60.8(b). Conduct any other required demonstrations using the test methods and procedures outlined. Subpart VV. [40 CFR 60.485]
- 420 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Record and maintain records as specified 40 CFR 60.486(a) through (k). Subpart VV. [40 CFR 60.486]
- 421 Submit performance test results: Due in accordance with 40 CFR 60.8 of the General Provisions. Subpart VV. [40 CFR 60.487(e)]
- 422 Submit semiannual report: Due semiannually to DEQ beginning six months after the initial startup date. Submit the information specified in 40 CFR 60.487(b) and (c). Subpart VV. [40 CFR 60.487]
- 423 Comply with the requirements of 40 CFR 61 Subpart V. Subpart J. [40 CFR 61.112(a)]
- 424 Permittee shall comply with all the applicable requirements of NESHAP, Subpart UU for equipment that contains or contacts 5% by weight organic HAP and is not in vacuum service. Subpart UU. [40 CFR 63.1019, 40 CFR 63.1022-1024]
- 425 Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. Subpart H. [40 CFR 63.162(c)]
- 426 Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 427 Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase I); 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
- Which Months: All Year Statistical Basis: None specified
- 428 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
- Which Months: All Year Statistical Basis: None specified
- 429 Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
- 430 Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- 431 Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
- 432 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-loop system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Subpart H. [40 CFR 63.163(e)(1)]

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- 433 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.163(e)(2)]
- 434 Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.163(e)(3)]
- 435 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Subpart H. [40 CFR 63.163(e)(4)]
- Which Months: All Year Statistical Basis: None specified
- 436 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.163(e)(6)(i)]
- 437 Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.163(e)(6)]
- 438 Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Subpart H. [40 CFR 63.163(e)]
- Which Months: All Year Statistical Basis: None specified
- 439 Pumps in light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulations specified frequency. Monitor each pump as often as practicable and at least monthly. Subpart H. [40 CFR 63.163(h)]
- Which Months: All Year Statistical Basis: None specified
- 440 Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Subpart H. [40 CFR 63.163(j)(1)]
- 441 Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.163(j)(2)]
- Which Months: All Year Statistical Basis: None specified
- 442 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
- 443 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172, or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
- 444 Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]
- 445 Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
- 446 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- 447 Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]

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- 448 Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ.
Subpart H. [40 CFR 63.164(i)(2)]
Which Months: All Year Statistical Basis: None specified
- 449 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H. [40 CFR 63.164]
- 450 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c).
Subpart H. [40 CFR 63.165(a)]
Which Months: All Year Statistical Basis: None specified
- 451 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]
- 452 Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
Which Months: All Year Statistical Basis: None specified
- 453 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart V. [40 CFR 63.165(d)(2)]
- 454 Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H. [40 CFR 63.166]
- 455 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H. [40 CFR 63.167]
- 456 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
Which Months: All Year Statistical Basis: None specified
- 457 Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
- 458 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
Which Months: All Year Statistical Basis: None specified
- 459 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Permittee may elect to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
Which Months: All Year Statistical Basis: None specified

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- 460 Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
- 461 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]
- Which Months: All Year Statistical Basis: None specified
- 462 Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
- 463 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(h)(1)]
- 464 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.168(h)(2)]
- Which Months: All Year Statistical Basis: None specified
- 465 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Subpart H. [40 CFR 63.168(i)(1)]
- 466 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Subpart H. [40 CFR 63.168(i)(3)]
- Which Months: All Year Statistical Basis: None specified
- 467 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]
- Which Months: All Year Statistical Basis: None specified
- 468 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]
- 469 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]
- 470 Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]
- Which Months: All Year Statistical Basis: None specified
- 471 Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]
- Which Months: All Year Statistical Basis: None specified

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472 Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]

473 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Subpart H. [40 CFR 63.173(d)(1)]

474 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Subpart H. [40 CFR 63.173(d)(2)]

475 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.173(d)(3)]

476 Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Subpart H. [40 CFR 63.173(d)(4)]

Which Months: All Year Statistical Basis: None specified

477 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.173(d)(6)(i)]

478 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(d)(6)]

479 Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Subpart H. [40 CFR 63.173(d)]

Which Months: All Year Statistical Basis: None specified

480 Agitators in gas/vapor service or light liquid service (unmanned plant site): Presence of a leak monitored by visual inspection/determination at the regulation's specified frequency. Monitor each agitator as often as practicable and at least monthly. Subpart H. [40 CFR 63.173(g)]

Which Months: All Year Statistical Basis: None specified

481 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Subpart H. [40 CFR 63.173(h)(1)]

482 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Subpart H. [40 CFR 63.173(h)(3)]

Which Months: All Year Statistical Basis: None specified

483 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]

484 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Subpart H. [40 CFR 63.173(j)(2)]

Which Months: All Year Statistical Basis: None specified

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485 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]

Which Months: All Year Statistical Basis: None specified

486 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within the first 12 months after initial startup or by no later than 12 months after the date of promulgation of a specific subpart that references 40 CFR 63 Subpart H, whichever is later, except as specified in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(2)]

Which Months: All Year Statistical Basis: None specified

487 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]

Which Months: All Year Statistical Basis: None specified

488 Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]

Which Months: All Year Statistical Basis: None specified

489 Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)]

Which Months: All Year Statistical Basis: None specified

490 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]

Which Months: All Year Statistical Basis: None specified

491 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]

Which Months: All Year Statistical Basis: None specified

492 Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]

493 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Subpart H. [40 CFR 63.174(f)(1)]

494 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Subpart H. [40 CFR 63.174(f)(2)]

Which Months: All Year Statistical Basis: None specified

495 Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(g)]

496 Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(h)(2)]

497 Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]

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- 498 Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H. [40 CFR 63.180]
- 499 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H. [40 CFR 63.181]
- 500 Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 501 Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]
- 502 Compliance with all the applicable requirements of NESHAP, Subpart H and NSPS, Subpart YY is considered compliance with the requirements of NESHAP, Subpart CC and LAC, Chapter 51. [LAC 33:III.5109.A, 40 CFR 63.648]

GRP006 Shared Sources

- 503 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 504 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]
- 505 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 506 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 507 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 508 Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited. [LAC 33:III.2901.D]
- 509 If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.F. [LAC 33:III.2901.F]
- 510 Carbon monoxide <= 137.80 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 511 Nitrogen oxides <= 37.23 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 512 Particulate matter (10 microns or less) <= 5.71 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 513 Sulfur dioxide <= 56.30 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 514 VOC Total <= 259.75 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 515 1,3-Butadiene <= 19.09 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 516 1-Methylnaphthalene <= 0.03 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site
Activity Number: PER20020001
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Air - Title V Regular Permit Renewal

GRP006 Shared Sources

- 517 2,2,4-Trimethylpentane <= 0.93 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 518 2-Methylnaphthalene <= 0.04 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 519 Acetonitrile < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 520 Ammonia <= 1.00 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 521 Benzene <= 8.45 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 522 Biphenyl < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 523 Cresol < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 524 Cumene <= 0.02 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 525 Ethyl benzene <= 0.61 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 526 Hydrochloric acid <= 1.53 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 527 Hydrogen sulfide <= 2.45 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 528 Methanol <= 0.02 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 529 Methyl Tertiary Butyl Ether <= 0.11 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 530 Naphthalene <= 0.21 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 531 n-Hexane <= 3.99 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 532 Polynuclear Aromatic Hydrocarbons <= 0.36 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 533 Phenol <= 0.02 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 534 Styrene <= 0.49 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 535 Toluene <= 3.72 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 536 Xylene (mixed isomers) <= 1.61 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

GRP006 Shared Sources

537 Diethanolamine < 0.01 tons/yr. [LAC 33.III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum

538 Sulfuric acid <= 1.02 tons/yr. [LAC 33.III.501.C.6]

Which Months: All Year Statistical Basis: Annual maximum

539 The number of each type of components required to be monitored for each monitoring period under applicable leak detection and repair programs shall be reported to the LDEQ by inclusion with each periodic monitoring report. Fugitive emission piping components may be added to or removed from the permitted units, without triggering the need to apply for a permit modification, provided: A) Changes in components involve routine maintenance or are undertaken to address safety concerns, or involve small piping revisions with no associated emissions increases except from the fugitive emission components themselves; B) The changes do not involve any associated increase in the production rate or capacity, or tie in of new or modified process equipment other than the piping components; C) Actual emissions following the changes will not exceed the emission limits contained in this permit; and D) The components are promptly incorporated into any applicable leak detection and repair program. [LAC 33.III.501.C.6]

540 Permittee shall comply with the tank turnaround emission (Startup/Shutdown) limits. The total emissions are limited an annual maximum and on a five year rolling average and the permittee shall not exceed the annual tons per year, in any year, for any pollutant and the five year rolling average for any pollutant specified in this specific condition. The emissions are calculated based on the following tanks turnaround: Tank ID D-418, D-419, K-484, L-438, XC-429, XC-430, XC-7005, and XC-7006. Permittee shall report these calculated emissions under the Startup/Shutdown emissions by March 31 for the preceding year. Permittee shall maintain the record of these emissions and also comply with the five year rolling average. Annual reported emissions greater than the maximum yearly emissions and the total five year average emissions listed in this permit shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division.□

Compliance limits shall be calculated using the following equations:□

If i - y >= 5 Use Equation No. 1 (EQ1)□

If i-y < 5 Use Equation No. 2 (EQ2) □

where i = Most recent calendar year and y = Year original Part 70 permit was issued□

$$EQ1 \quad \text{Summation } \frac{Xi}{5} \leq 5 \text{ year rolling average in the permit} \quad \square$$
$$\square \quad i \quad \square$$

$$EQ1 \quad \text{Summation } \frac{Xi}{5} \leq 5 \text{ year rolling average in the permit} \quad \square$$
$$y \quad \square$$

where X_i = Actual Annual Emissions in year i (tons/yr) for all tank turnaround in that year□

□ Annual and Maximum Limits and the Five Year Maximum Limits not to be exceeded□

Pollutant Annual Max. (tpy) 5 Year Max. Rolling Average (tpy)□

VOC, Total 41.19 20.95□

1,3-Butadiene 0.12 0.05. [LAC 33.III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

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Air - Title V Regular Permit Renewal

GRP006 Shared Sources

Pollutant	Annual Max. (tpy)	5 Year Max. Rolling Average (tpy) <input type="checkbox"/>
2,24-Trimethylpentane	0.34	0.11 <input type="checkbox"/>
Acetonitrile	<0.01	<0.01 <input type="checkbox"/>
Ammonia	<0.01	<0.01 <input type="checkbox"/>
Benzene	0.61	0.25 <input type="checkbox"/>
Biphenyl	<0.01	<0.01 <input type="checkbox"/>
Cresols	<0.01	<0.01 <input type="checkbox"/>
Cumene	0.02	<0.01 <input type="checkbox"/>
Ethylbenzene	0.20	0.08 <input type="checkbox"/>
n-Hexane	0.13	0.07 <input type="checkbox"/>
Hydrochloric acid	0.13	0.04 <input type="checkbox"/>
Hydrogen sulfide	<0.01	<0.01 <input type="checkbox"/>
MTBE	<0.01	<0.01 <input type="checkbox"/>
Naphthalenes	2.94	1.52 <input type="checkbox"/>
Phenol	<0.01	<0.01 <input type="checkbox"/>
Styrene	0.18	0.08 <input type="checkbox"/>
Sulfuric acid	0.02	<0.01 <input type="checkbox"/>
Toluene	0.73	0.31 <input type="checkbox"/>
Xylene	0.58	0.29 <input type="checkbox"/>

[LAC 33:III.501.C.6]

541 Permittee shall show compliance with the emission limits, as specified in this specific condition, from the Utilities East Flare, Emission 3-84, due to the maintenance, startup and shutdown activities at the plant when the emissions are routed to this flare. The permittee shall calculate the emissions based on each activity as referenced above. The total emissions shall not exceed for each pollutant, PM10, 0.09 tons per year (TPY); SO2, 14.07 TPY; CO, 0.47 TPY; NOx, 0.47 TPY; VOC, 3.27 TPY; Benzene, 0.01 TPY; and n-Hexane, 0.41 TPY. All the activities shall be recorded along with the corresponding calculated emissions for each month, as well as the total calculated emissions based on the Office of Environmental Compliance, Surveillance Division. The total calculated emissions based on the activities above the maximum listed in this permit as referenced above for any twelve consecutive months shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the activities and corresponding total calculated emissions for the last twelve months shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.501.C.6]

542 Permittee shall show compliance with the emission limits, as specified in this specific condition, from the Utilities East Flare, Emission 3-84, due to the maintenance, startup and shutdown activities at the plant when the emissions are routed to this flare. The permittee shall calculate the emissions based on each activity as referenced above. The total emissions shall not exceed for each pollutant, PM10, 0.09 tons per year (TPY); SO2, 0.01 TPY; CO, 2.57 TPY; VOC, 3.21 TPY; Benzene, 0.01 TPY; Methanol, 0.01 ; MTBE, 0.01 ; and Toluene, 0.01 TPY. All the activities shall be recorded along with the corresponding calculated emissions for each month, as well as the total calculated emissions based on the activities for the last twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. The total calculated emissions based on the activities above the maximum listed in this permit as referenced above for any twelve consecutive months shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the activities and corresponding total calculated emissions for the last twelve months shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.501.C.6]

543 Permittee shall show compliance with the emission limits, as specified in this specific condition, from the West Ops Elevated Flare, Emission 5-84, due to the maintenance, startup and shutdown activities at the plant when the emissions are routed to this flare. The permittee shall calculate the emissions based on each activity as referenced above. The total emissions shall not exceed for each pollutant, PM10, 0.09 tons per year (TPY); SO2, 0.01 TPY; NOx, 0.47 TPY; VOC, 3.21 TPY; Benzene, 0.01 TPY; Methanol, 0.01 ; MTBE, 0.01 ; and Toluene, 0.01 TPY. All the activities shall be recorded along with the corresponding calculated emissions for each month, as well as the total calculated emissions based on the activities for the last twelve months. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. The total calculated emissions based on the activities above the maximum listed in this permit as referenced above for any twelve consecutive months shall be a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing the activities and corresponding total calculated emissions for the last twelve months shall be submitted to the Office of Environmental Compliance, Surveillance Division by March 31 for the preceding calendar year. [LAC 33:III.501.C.6]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

GRP006 Shared Sources

- 544 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]
- 545 Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 546 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 547 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A. [LAC 33:III.5105.A.4]
- 548 Submit Annual Emissions Report (TIED): Due annually, by the 1st of July, to the Office of Environmental Assessment, Environmental Evaluation Division in a form specified by the department. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 549 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 550 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 551 Submit notification: Due to the Office of Environmental Compliance, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.Chapter 51.Table 51.1 or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.5107.B.2]
- 552 Submit notification: Due to the Office of Environmental Compliance immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in [LAC 33:III.3923. [LAC 33:III.5107.B.3]
- 553 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 554 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 555 Submit to DEQ a compliance plan for achieving compliance with the ambient air standard(s), in accordance with LAC 33:III.5109.D. Include the elements listed under LAC 33:III.5109.E. [LAC 33:III.5109.B.1]
- 556 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 557 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112.Table 51.2. [LAC 33:III.5109.B.]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

GRP006 Shared Sources

- 558 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.C Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 559 Obtain a Louisiana Air Permit in accordance with LAC 33:III.511.B and C and in accordance with LAC 33:III.1701, before commencement of the construction of any new source. [LAC 33:III.5111.A.1]
- 560 Obtain a permit modification in accordance with LAC 33:III.5111.B and C before commencement of any modification not specified in a compliance plan submitted under LAC 33:III.5109.D, if the modification will result in an increase in emissions of any toxic air pollutant or will create a new point source. [LAC 33:III.5111.A.2a]
- 561 Obtain written authorization from DEQ before commencement of any modification specified in a compliance plan submitted pursuant to LAC 33:III.5109.D. [LAC 33:III.5111.A.3]
- 562 Apply for a permit in accordance with LAC 33:III.5111.B, for any existing major source which is operating without a Louisiana Air Permit, or which is not fully permitted, or for any minor source that was once a major source. [LAC 33:III.5111.A.4]
- 563 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A.]
- 564 Submit notification in writing: Due to the Office of Environmental Compliance, Surveillance Division not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up. [LAC 33:III.5113.A.1]
- 565 Submit notification in writing: Due to the Office of Environmental Compliance, Surveillance Division within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source. [LAC 33:III.5113.A.2]
- 566 Ensure that all testing done to determine the emission of toxic air pollutants, upon request by the department, is conducted by qualified personnel. [LAC 33:III.5113.B.1]
- 567 Submit test results: Due in writing to the Office of Environmental Assessment, Environmental Technology Division within 45 days after completion of the test. Submit test results signed by the person responsible for the test. [LAC 33:III.5113.B.1]
- 568 Provide necessary sampling and testing facilities, exclusive of instruments and sensing devices, as needed to properly determine the emission of toxic air pollutants, upon request of the department. [LAC 33:III.5113.B.3]
- 569 Provide emission testing facilities as specified in LAC 33:III.5113.B.4 through e. [LAC 33:III.5113.B.4]
- 570 Analyze samples and determine emissions within 30 days after each emission test has been completed. [LAC 33:III.5113.B.5]
- 571 Submit certified letter: Due to the Office of Environmental Assessment, Environmental Technology Division before the close of business on the 45th day following the completion of the emission test. Report the determinations of the emission test. [LAC 33:III.5113.B.5]
- 572 Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of emissions testing. Retain records of emission test results and other data needed to determine emissions. Retained records at the source, or at an alternate location approved by DEQ for a minimum of two years, and make available upon request for inspection by DEQ. [LAC 33:III.5113.B.6]
- 573 Submit notification: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before the emission test. Repair or adjust any breakdown or emission test to allow DEQ the opportunity to have an observer present during the test. [LAC 33:III.5113.B.7]
- 574 Maintain and operate each monitoring system in a manner consistent with good air pollution control practices for minimizing emissions. Repair or adjust any breakdown or malfunction of the monitoring system as soon as practicable after its occurrence. [LAC 33:III.5113.C.1]
- 575 Conduct performance evaluation of the monitoring system when required at any other time requested by DEQ. [LAC 33:III.5113.C.2]
- 576 Submit performance evaluation report: Due to the Office of Environmental Assessment, Environmental Technology Division within 60 days of the monitoring system performance evaluation. [LAC 33:III.5113.C.2]
- 577 Submit notification in writing: Due to the Office of Environmental Assessment, Environmental Technology Division at least 30 days before a performance evaluation of the monitoring system is to begin. [LAC 33:III.5113.C.2]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site
Activity Number: PER20020001
Permit Number: 2510-V2
Air - Title V Regular Permit Renewal

GRP006 Shared Sources

- 578 Install a monitoring system on each effluent or on the combined effluent, when monitoring is required and the effluents from a single source, or from two or more sources subject to the same emission standards, are combined before being released to the atmosphere. If two or more sources are not subject to the same emission standards, install a separate monitoring system on each effluent, unless otherwise specified. If the applicable standard is a mass emission standard and the effluent from one source is released to the atmosphere through more than one point, install a monitoring system at each emission point unless DEQ approves the installation of fewer systems. [LAC 33:III.5113.C.3]
- 579 Evaluate the performance of continuous monitoring systems, upon request by DEQ, in accordance with the requirements and procedures contained in the applicable performance specification of 40 CFR Part 60, appendix B. [LAC 33:III.5113.C.5.a]
- 580 Submit report: Due to DEQ within 60 days of the performance evaluation of the CMS, if requested. Furnish DEQ with two or more copies of a written report of the test results within 60 days. [LAC 33:III.5113.C.5.a]
- 581 Install all continuous monitoring systems or monitoring devices to make representative measurements under variable process or operating parameters, if required to install a CMS. [LAC 33:III.5113.C.5.d]
- 582 Collect and reduce all data as specified in LAC 33:III.5113.C.5.e.i and ii, if required to install a CMS. [LAC 33:III.5113.C.5.e]
- 583 Submit plan: Due to the Office of Environmental Assessment, Environmental Technology Division within 90 days after DEQ requests either the initial plan or an updated plan, if required by DEQ to install a continuous monitoring system. Submit for approval a plan describing the affected sources and the methods for ensuring compliance with the continuous monitoring system. [LAC 33:III.5113.C.5]
- 584 Maintain records of monitoring data, monitoring system calibration checks, and the occurrence and duration of any period during which the monitoring system is malfunctioning or inoperative. Maintain these records at the source, or at an alternative location approved by DEQ, for a minimum of three years and make available, upon request, for inspection by DEQ. [LAC 33:III.5113.C.7]
- 585 An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity. [LAC 33:III.5151.F.1.f]
- 586 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 587 Activate the preplanned strategy listed in LAC 33:III.5611.Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 588 Activate the preplanned abatement strategy listed in LAC 33:III.5611.Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 589 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611.Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 590 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 591 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 592 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 593 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 594 Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III. Chapter 59, whichever is later. Include the information listed in LAC 33:III.5911.B, and submit to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division. [LAC 33:III.5911.A]
- 595 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Surveillance Division within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER20020001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

GRP006 Shared Sources

596 Install air pollution control facilities whenever practically, economically, and technologically feasible. When facilities have been installed on a property, use them and diligently maintain them in proper working order whenever any emissions are being made which can be controlled by the facilities, even though the ambient air quality standards in affected areas are not exceeded. [LAC 33:III.905]

597 Where, upon written application of the responsible person or persons, the administrative authority finds that by reason of exceptional circumstances strict conformity with any provisions of these regulations would cause undue hardship, would be unreasonable, impractical or not feasible under the circumstances, the administrative authority may permit a variance from these regulations. [LAC 33:III.917.A]

598 No variance may permit or authorize the maintenance of a nuisance, or a danger to public health or safety. [LAC 33:III.917.B]

599 Submit Emission Inventory (EI) Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Environmental Evaluation Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]

600 Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:1.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases. [LAC 33:III.927]

601 No person or group of persons shall allow particulate matter or gases to become airborne in amounts which cause the ambient air quality standards to be exceeded. [LAC 33:III.929.A]

602 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]

603 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. [40 CFR 61.145(b)(1)]

604 Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M. [40 CFR 61.148]

605 Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF. [40 CFR 61.355]

606 Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain records as specified in 40 CFR 61.356(b)(4). Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF. [40 CFR 61.356]

607 Submit report: Due annually, beginning on the date that equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit updates to the information listed in 40 CFR 61.357(a)(1) through (3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(d)(2)]

608 Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a certification that all of the required inspections have been carried out in accordance with the requirements of 40 CFR 61 Subpart FF. Subpart FF.

609 Submit report: Due quarterly, beginning three months after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Include the information specified in 40 CFR 61.357(d)(7)(i) through (g)(7)(v). Subpart FF. [40 CFR 61.357(d)(7)]

610 Submit report: Due annually, beginning one year after the date that the equipment necessary to comply with 40 CFR 61 Subpart FF has been certified in accordance with 40 CFR 61.357(d)(1). Submit a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem that could result in benzene emissions is identified, including information about the repairs or corrective action taken. Subpart FF. [40 CFR 61.357(d)(8)]

611 All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. [40 CFR 61]

612 VOHAP recordkeeping by electronic or hard copy as needed. [40 CFR 63.7881(c), 40 CFR 63.7884(b)]

613 VOHAP < 1 Mg/yr. [40 CFR 63.7881(c)]
Which Months: All Year Statistical Basis: Annual maximum

SPECIFIC REQUIREMENTS

AI ID: 26336 - Shell Chemical LP - Norco Chemical Plant - East Site

Activity Number: PER2002001

Permit Number: 2510-V2

Air - Title V Regular Permit Renewal

GRP006 Shared Sources

- 614 Permittee shall evaluate each remediation activity for all applicable requirements if the applicability is triggered as per 40 CFR 63.7881(a). At the present time the facility is exempt per 40 CFR 63.7881(c) or 40 CFR 63.7884(b). Subpart GGGGG. [40 CFR 63.7881]
- 615 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 616 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 617 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 618 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 619 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division [40 CFR 70.6(c)(5)(iv)]
- 620 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.Subpart F]